

CASEMENTS & STEEL WINDOWS



HENRY HOPE & SONS L^D
BIRMINGHAM

[BLANK PAGE]



CCA

[BLANK PAGE]



CCA

[BLANK PAGE]



CCA

H. HOPE & SONS L^D

Head Office and Manufactory:

55, LIONEL ST BIRMINGHAM

Telegrams: "CONSERVATORY, Birmingham."

Telephone No. 999.

LONDON OFFICE:

39, Victoria Street, S.W.

Telegrams: "BUNTLIN, London."

G.P.O. Telephone: 78, Westminster.

MANCHESTER:

21, Spring Gardens.

Telephone No. 4290, Central.

GLASGOW:

134, St. Vincent Street.

Telegrams: "CASEMENTS, Glasgow."



Trade Mark.

Copyright: Entered at Stationers' Hall.

All previous Lists cancelled. *October 1st, 1904.*

1091 B 112 TC

ETAL CASEMENTS AND WROUGHT-STEEL SASHES

are the subject of this Catalogue, and in presenting it to our Customers we wish to call attention to the new method of illustration and arrangement which we have adopted. All the Illustrations are from photographs and represent precisely the articles which we supply.

We have perfected and are now offering three new ranges of Sections, Nos. 1, 2, and 3, each of which can be supplied either to open outwards hung at side or at top, or inwards hung at side or at bottom, *AND FOR CONVENIENCE AND EASE OF REFERENCE WE HAVE NAMED THE INWARD OPENING SECTIONS 1a, 2a, and 3a RESPECTIVELY.*

Sections Nos. 1 and 1a are specially designed for large Casements for Public Buildings, where great strength and absolute exclusion of the weather are a necessity.

Sections Nos. 2 and 2a are recommended for Casements of moderate size, where first-class work is required. Thousands of these two sections have been supplied for dwelling-houses during the last four years.

Sections Nos. 3 and 3a are suitable for small Casements up to 3ft.6 high. They are weather-tight in all but the most exposed situations, and are quite as well made and highly finished as our more expensive sections.

Our Business has grown so enormously during the last three years, and our Manufactures are now so universally well-known, that we feel it is unnecessary to say anything at great length as to Quality.

We prefer to refer our Customers to the Specifications which we give with each Section, and to inform them that although we have so organised and perfected our manufacturing operations, as to render it almost impossible that anything that is not "first class" shall leave our Works, we are not content to rest upon the position we have won in the Trade.

We are continually exploiting new ideas, both in design and manufacture, and nothing that our knowledge and experience indicates as likely to improve our products is left untried.

Finally we would point out that we manufacture everything in Casement and Window Construction in our own works, and we undertake, and will at all times give inclusive estimates for any description of Metal Casement or Window, including all kinds of glass, fixing and glazing complete.

At the end of this book will be found a summary of our other manufactures, and Catalogues of these will be sent on application. The progressive policy which we claim for our Casement work is continued in each Department.

In such of our work as admits of decoration, it will be noticed that there is no highly elaborated detail,—not that we think this undesirable, but because we are convinced that such work must be specially produced for its position if it is to be tolerable. Our endeavour is to supply articles of such refinement and sober detail as will permit their use in practically any position, without violence to their surroundings.

55, Lionel St.
Birmingham.

April 2nd, 1904.

We call attention to pages 24 to 27 dealing with our "Cleaning" Casements. We make two sections to correspond with our Nos. 1 & 2, the Cleaning Casements being numbered 1C & 2C

GENERAL REMARKS.

In sending sizes great care should be exercised that the instructions given on pages 58 and 59 are observed.

Where a large number of casements are ordered, a practical representative will be sent free of charge to take sizes, and where this is done all responsibility is taken as to the work being accurate. In these cases we strongly advise our customers to arrange for the fixing and glazing to be done by our own men. Estimates will be forwarded on application.

We were able to announce in our last catalogue that we had put down a special plant for dealing with the removal of all borax, scale, etc., from brazed joints. Since then we have pursued a further line of investigation to enable us to deal effectually with the problem of rendering a steel casement practically rustproof, under the very trying conditions which usually obtain in a new building.

Our researches have been so far successful that we are now offering an extra quality which we have called "1a." We have every confidence in recommending this quality to our customers for those buildings where a very high grade of finish is required but where the cost of solid gun-metal is prohibitive. Our ordinary qualities (1 and 2) are treated in the same manner as before; all joints being sandblasted and the surfaces thoroughly cleaned and painted two coats of white-lead and oil before leaving the works.

The care and trouble bestowed on finishing our work, together with the exceptional quality and character of our fittings, should be noted in comparing prices with other makers.

In no case should casements be fixed until the building is clear of the rougher trades. Where it is desirable to protect floors and plastering, canvas screens can be placed against the window frames at a very small cost. If casements and glazing are put in soon enough to effect this purpose they are certain to be damaged.

TERMS OF PURCHASE.

Cash on the 10th of the Month following date of delivery.

Carriage included for orders of £10 and upwards, to any place within 100 miles of Birmingham; over this distance extra carriage will be charged.

Packing, where necessary, charged at cost price, value of cases allowed in full when returned in good condition carriage paid.

Special terms as to payment, etc., will be made for large contracts.

GUARANTEE.

Section No. 1 is guaranteed weather-tight in any situation.

Section No. 2 is weather-tight in all but the most exposed places, such as south-west aspects on high positions, or close to the sea coast.

Section No. 3 is weather-tight in all ordinary situations.

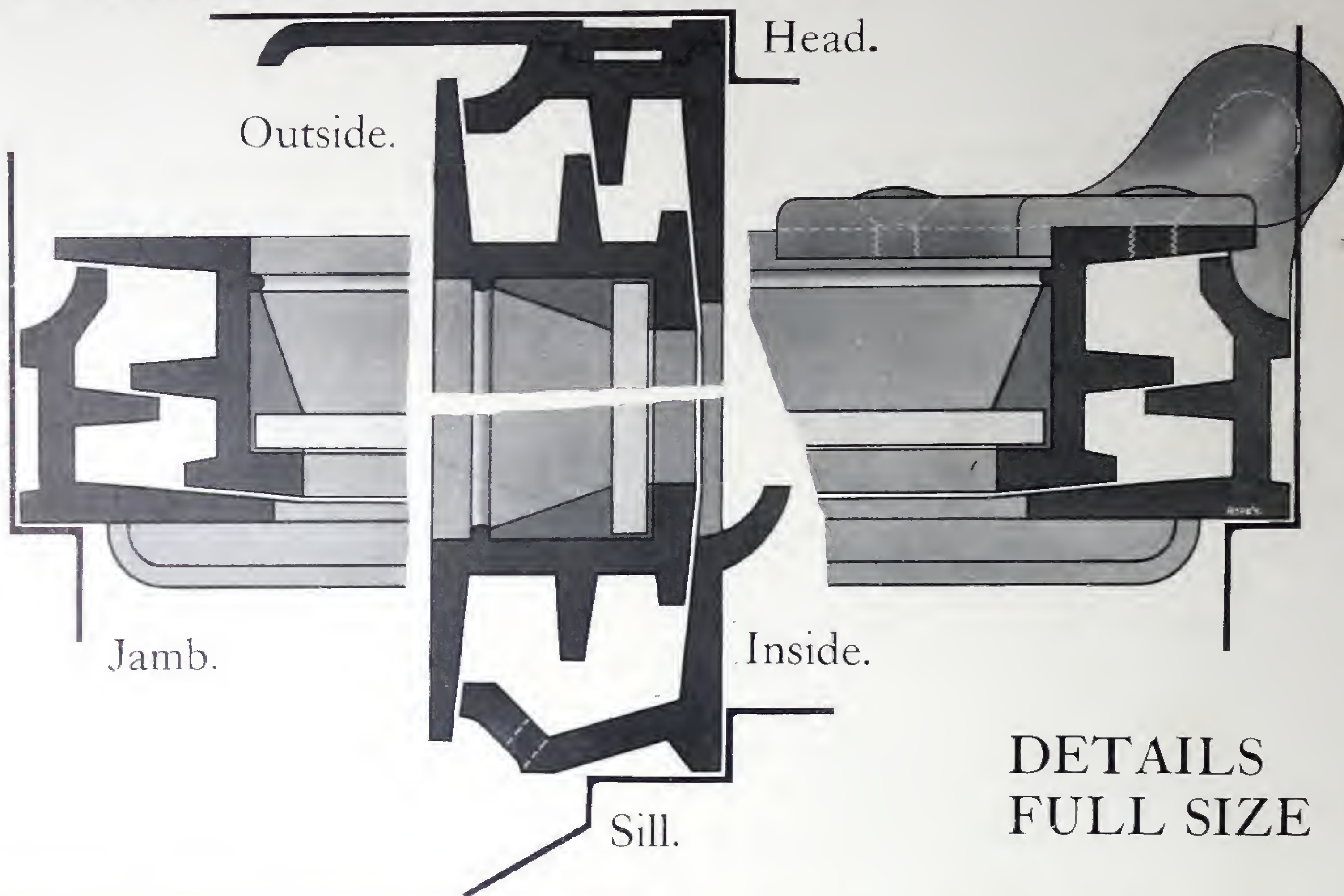
In all cases our guarantee is subject to the details of the heads, jambs, and sills being approved by us.

INDEX.

2, 3,	PREFACE.
4,	TERMS OF PURCHASE.
5,	INDEX.
6, 7,	SECTION No. 1. Casement & Frame opening outwards.
8, 9,	„ No. 1 a. „ „ „ inwards.
10, 11,	„ No. 2. „ „ „ outwards.
12, 13,	„ No. 2 a. „ „ „ inwards.
14, 15,	„ No. 3. „ „ „ outwards.
16, 17,	„ No. 3 a. „ „ „ inwards.
18, 19,	MOULDED SECTION „ „ „ outwards.
20, 21,	SECTION No. 8. Casement, without Frame, opening outwards.
22, 23,	„ No. 9. „ „ „ „
24, 25,	“CLEANING” CASEMENT, SECTION No. 1.
26, 27,	„ „ „ No. 2.
28, 29,	FOLDING CASEMENTS.
30, 31,	SWINGING „ SECTIONS Nos. 14 & 15.
32, 33,	„ „ „ Nos. 13 & 11.
34, 35,	HOPPERS & HOPPER CHEEKS.
36, 37,	FIXED LIGHTS.
38,	CASEMENT FITTINGS PREFACE.
39,	„ „ SPECIFICATION & DETAILS.
40,	HANDLES & PLATES (Bronze-metal, for Outward Opening Casements).
41,	„ „ (Wrought-iron, „ „ „).
42,	„ „ (Special plain patterns, „ „ „).
43,	„ „ (for Inward Opening Casements).
44,	STAYS (Gun-metal).
45,	„ (Wrought-iron).
46, 47,	BOLTS.
48,	LATCHES & QUADRANTS.
49,	SASHES: PREFACE.
50, 51,	„ 2in. SECTION.
52, 53,	„ 1½in. „
54,	„ DETAILS OF ALL SECTIONS.
55,	„ (with various forms of opening Casements).
56, 57,	OPENING GEAR.
58, 59,	<i>INSTRUCTIONS AS TO ORDERING.</i>
60,	LIST OF BUILDINGS.
61-72,	PHOTOGRAPHS OF BUILDINGS.
73,	LEADED LIGHTS.
74,	DOOR FURNITURE.
75,	LEADWORK.
76,	HORTICULTURAL BUILDINGS.
77,	PATENT GLAZING.
78,	HEATING & HOT-WATER.

SECTION No. 1

OUTWARD OPENING CASEMENT WITH FRAME



DETAILS
FULL SIZE



Photograph of Frame, with one Casement hung at side, Quality 1 (left hand), and one Casement above transome hung at top, Quality 1. Fixed lights of L section. All with rebated L bars for sheet glass.

SPECIFICATION

Each section is of solid rolled English Mild Steel, made from rolls cut for our exclusive use.

All joints cut on special milling machines, ensuring a perfect fit.

The Corners of Inside and Outside Frames are rivetted and brazed.

The Handle Plate and Stay Jaw are Mild Steel Forgings, accurately machined and brazed to the casements. All brazed joints are sandblasted. This process removes the brazing flux and scale and leaves the surface of the steel in a perfect state to receive the paint.

The Hinges are of Mild Steel Forgings bushed with Gun-metal and machined with great accuracy.

The Fittings of each pattern are interchangeable, and of the best possible materials and workmanship, for full specification and designs, see pages 38 to 48.

HENRY HOPE & SONS LTD

PRICE LIST OF SECTION No. 1

CASEMENTS HUNG AT SIDE

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Handle and either Gun-metal Screw and Swivel Stay or Peg Stay.

QUALITY No. 2 Painted as last, and fitted with Wrought-iron Handle and Peg Stay.

QUALITY No. 1a the same fittings as Quality 1. The sill of the Outer Frame made of solid Gun-metal, and all the surfaces of the steel ground and finished perfectly smooth, Oiled and Painted two coats of White-lead, and one coat of Enamel.

CASEMENTS of all qualities over 4ft. 6in. high are fitted with Gun-metal Double Grip Bolts working on Gun-metal plates, gripping the casement at top and bottom with one motion of the handle.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.	Extra for Fillets for Grooves.
Under 3ft. : : :	Under 2ft.	45/-	41/-	57/-	2/6
3ft. and under 3ft. 6in. :	"	47/-	43/-	59/-	3/-
3ft. 6in. and under 4ft. :	"	49/-	45/-	61/-	3/-
4ft. and under 4ft. 6in. :	"	51/-	47/-	64/-	3/-
4ft. 6in. and under 5ft. :	"	65/-	60/-	78/-	4/-
5ft. and under 5ft. 6in. :	"	67/-	62/-	81/-	4/-
5ft. 6in. and under 6ft. :	"	70/-	65/-	83/-	4/6

CASEMENTS HUNG AT TOP

For use over Transomes of the same section and hung on Gun-metal Hinges to open outwards.

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Screw Opener to work with cord, fixed to either side of the casement, or Jointed Arm Stay.

QUALITY No. 2 Painted as last, and fitted with Gun-metal Peg Stay.

QUALITY No. 3 fitted with Iron Peg Stay.

QUALITY No. 1a the same as described above for casements hung at side.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 3.	Quality 1a.
Under 2ft. 6in. : : :	Under 2ft.	41/-	38/-	36/-	51/-
2ft. 6in. and under 3ft. :	"	43/-	40/-	38/-	53/-

Circular or Gothic Heads, 12/- each.

Fillets for Grooves same as above.

Rebated Cross Bars, 1/3 each extra. Saddle Bars for lead lights, 10d. each.

Casements divided into four panes with Rebated Bars, 3/- each extra.

Casements divided into six panes with Rebated Bars, 5/- each extra.

For prices of Fixed Lights, see page 36.

Prices are for Square Heads, and preparation for one sheet of glass.

IMPORTANT.—For instructions as to ordering see pages 58 & 59.

SECTION No. 1A

INWARD OPENING CASEMENT WITH FRAME



Photograph of Frame with one Casement hung at side, Quality 1 (left hand), and one hung at bottom, Quality 1. Fixed lights of L section. All with rebated L bars for sheet glass.

SPECIFICATION

Each section is of solid rolled English Mild Steel, made from rolls cut for our exclusive use.

All joints cut on special milling machines, ensuring a perfect fit.

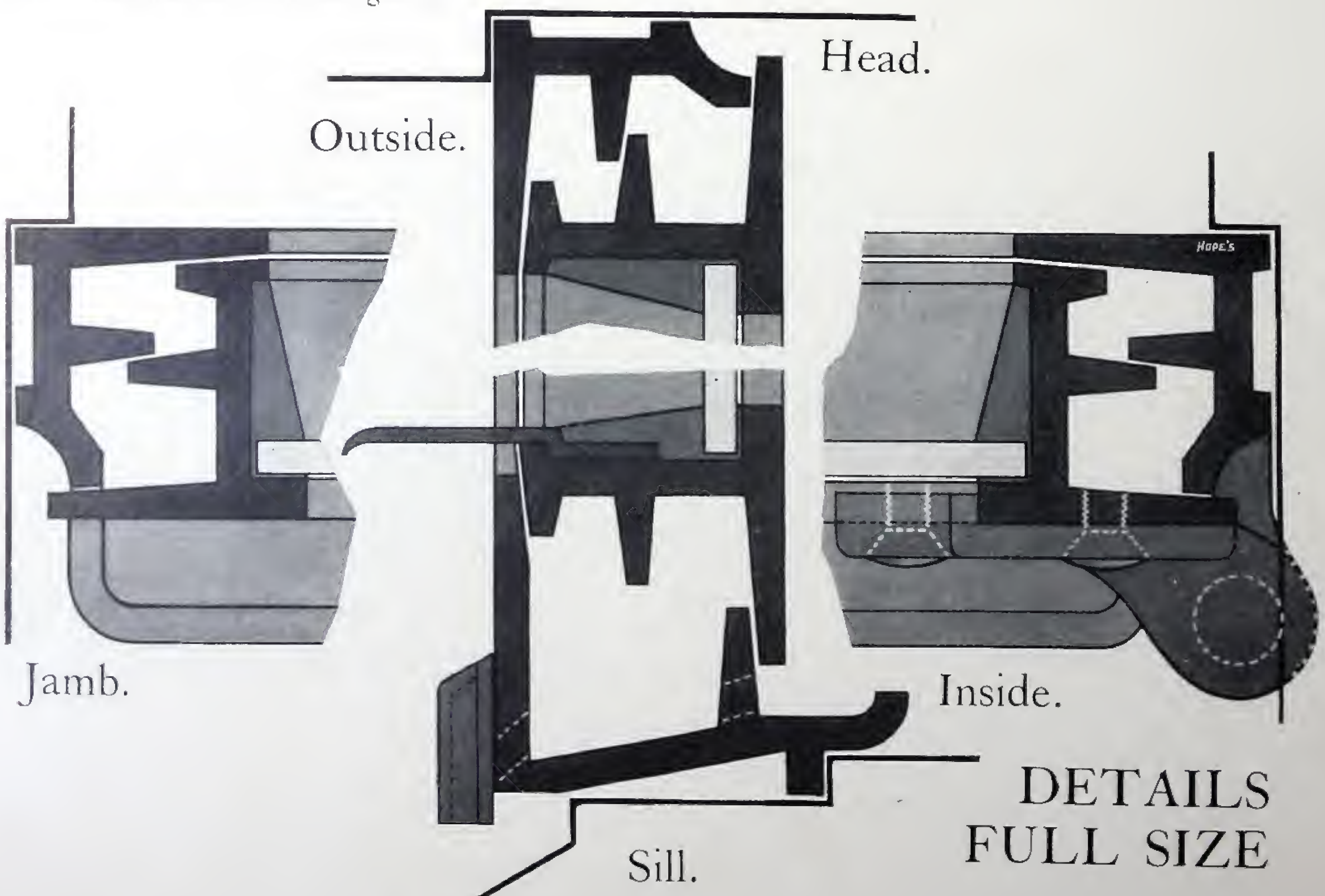
The corners of Inside and Outside Frames are rivetted and brazed.

The Handle Plate is a Mild Steel Forging, accurately machined and brazed to the casement.

All brazed joints are sandblasted. This process removes the brazing flux and scale and leaves the surface of the steel in a perfect state to receive the paint.

The Hinges are of Mild Steel Forgings bushed with Gun-metal and machined with great accuracy.

The Fittings of each pattern are interchangeable, and of the best possible materials and workmanship, for full specification and designs, see pages 38 to 48.



DETAILS
FULL SIZE

HENRY HOPE & SONS LTD

PRICE LIST OF SECTION No. 1A

CASEMENTS HUNG AT SIDE

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Handle and Gun-metal Revolving Cabin Hook.

QUALITY No. 2 Painted as last, and fitted with Wrought-iron Handle and plain Cabin Hook.

QUALITY No. 1a the same fittings as Quality 1. The sill of the Outer Frame made of solid Gun-metal, and all the surfaces of the steel ground and finished perfectly smooth, Oiled and Painted two coats of White-lead, and one coat of Enamel.

CASEMENTS of all qualities over 4ft. 6in. high are fitted with Gun-metal Double Grip Bolts working on Gun-metal plates, gripping the casement at top and bottom with one motion of the handle.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.	Extra for Fillets for Grooves.
Under 3ft. : : : :	Under 2ft.	49/-	45/-	62/-	2/6
3ft. and under 3ft. 6in. :	„	51/-	47/-	64/-	3/-
3ft. 6in. and under 4ft. :	„	53/-	49/-	66/-	3/-
4ft. and under 4ft. 6in. :	„	55/-	51/-	69/-	3/-
4ft. 6in. and under 5ft. :	„	67/-	63/-	82/-	4/-
5ft. and under 5ft. 6in. :	„	69/-	65/-	84/-	4/-
5ft. 6in. and under 6ft. :	„	73/-	69/-	88/-	4/6

CASEMENTS HUNG AT BOTTOM

For use over Transomes of the same section and hung on Pivots and Plates to open inwards.

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Spring Catch and Folding Side-arms.

QUALITY No. 2 Painted as last, and fitted with Gun-metal Spring Catch and Plain Iron Side-arms.

QUALITY No. 1a the same as described above for casements hung at side.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.	Extra for Fillets for Grooves.
Under 2ft. 6in.: : : :	Under 2ft.	39/-	37/-	50/-	2/6
2ft. 6in. and under 3ft. :	„	41/-	39/-	52/-	2/6

Circular or Gothic Heads, 12/- each.

Rebated Cross Bars, 1/3 each extra. Saddle Bars for lead lights, 10d. each.

Casements divided into four panes with Rebated Bars, 3/- each extra.

Casements divided into six panes with Rebated Bars, 5/- each extra.

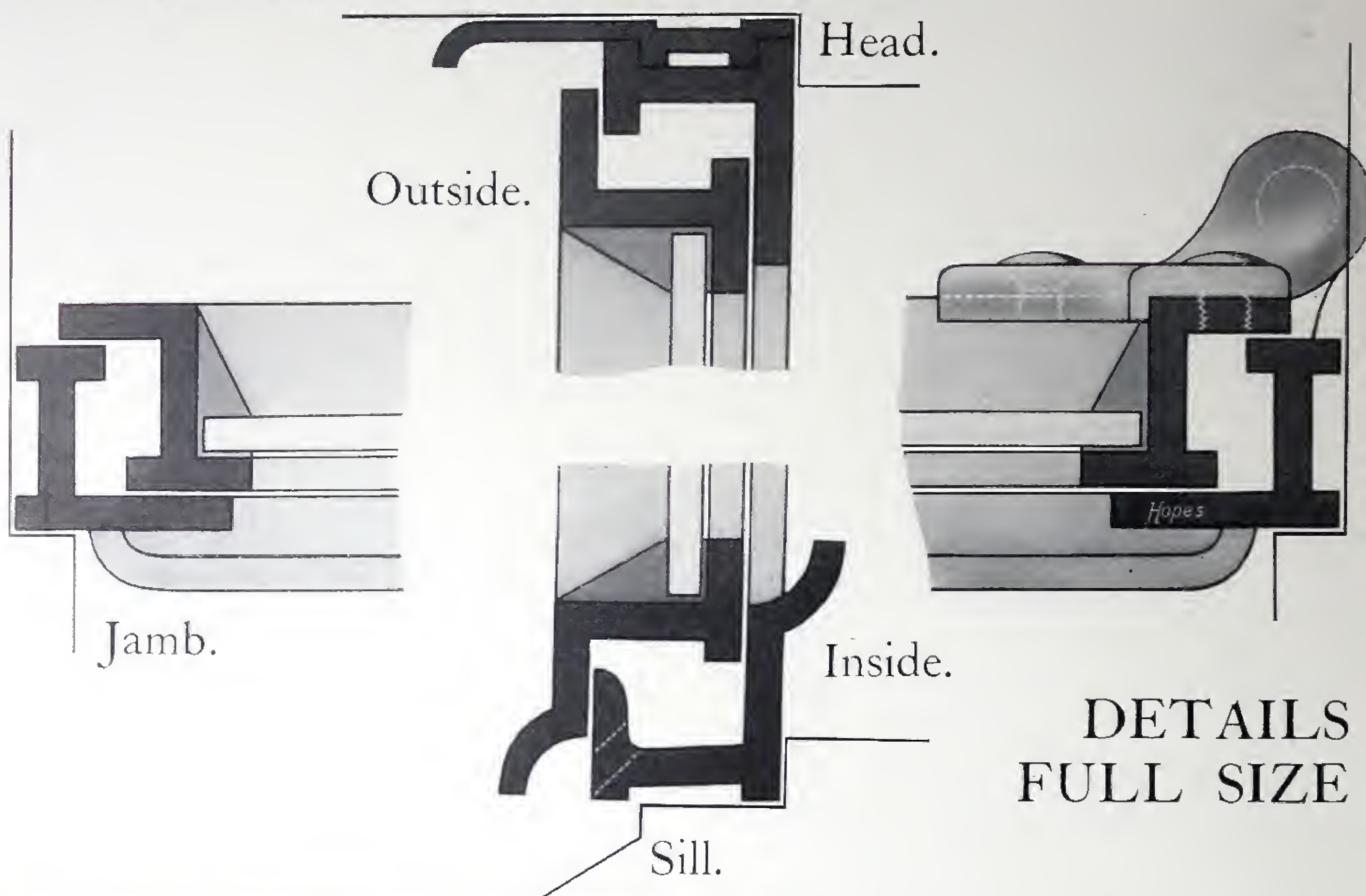
For prices and sections of Fixed Lights, see pages 36 and 37.

Prices are for Square Heads, and preparation for one sheet of glass.

IMPORTANT.—For instructions as to ordering see pages 58 & 59.

SECTION No. 2

OUTWARD OPENING CASEMENT WITH FRAME



Photograph of Frame with one Casement hung at side, Quality 1 (left hand), and one Casement above transome hung at top, Quality 2. All glazed with leaded lights.

SPECIFICATION

Each section is of solid rolled English Mild Steel, made from rolls cut for our exclusive use.

All joints cut on special milling machines, ensuring a perfect fit.

The corners of Inside and Outside Frames are rivetted and brazed.

The Handle Plate and Stay Jaw are Mild Steel Forgings, accurately machined and brazed to the casements.

All brazed joints are sandblasted. This process removes the brazing flux and scale and leaves the surface of the steel in a perfect state to receive the paint.

The Hinges are Mild Steel Forgings bushed with Gun-metal and machined with great accuracy.

The Fittings of each pattern are interchangeable, and of the best possible materials and workmanship, for full specification and designs, see pages 38 to 48.

HENRY HOPE & SONS LTD

PRICE LIST OF SECTION No. 2

CASEMENTS HUNG AT SIDE

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Handle and either Gun-metal Screw and Swivel Stay or Peg Stay.
 QUALITY No. 2 Painted as last, and fitted with Wrought-iron Handle and Peg Stay.

QUALITY No. 1a the same fittings as Quality 1. The sill of the Outer Frame made of solid Gun-metal, and all the surfaces of the steel ground and finished perfectly smooth, Oiled and Painted two coats of White-lead, and one coat of Enamel.

CASEMENTS of all qualities over 4ft. 6in. high are fitted with Gun-metal Double Grip Bolts, gripping the casement at top and bottom with one motion of the handle.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.	Extra for Fillets for Grooves
Under 2ft. 6in. : : :	Under 2ft.	33/-	29/-	42/-	2/6
2ft. 6in. and under 3ft. :	„	34/-	30/-	43/-	2/6
3ft. and under 3ft. 6in. :	„	35/-	31/-	44/-	3/-
3ft. 6in. and under 4ft. :	„	37/-	33/-	46/-	3/-
4ft. and under 4ft. 6in. :	„	39/-	35/-	49/-	3/-
4ft. 6in. and under 5ft. :	„	48/-	43/-	59/-	4/-
5ft. and under 5ft. 6in. :	„	50/-	45/-	62/-	4/-

CASEMENTS HUNG AT TOP

For use over Transomes of the same section and hung on Gun-metal hinges to open outwards.

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Screw Opener to work with cord, fixed to either side of the casement, or jointed Arm Stay.

QUALITY No. 2 Painted as last, and fitted with Gun-metal Peg Stay.

QUALITY No. 3 fitted with Iron Peg Stay.

QUALITY No. 1a the same as described above, for casements hung at side.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 3.	Quality 1a.
Under 2ft. : : : :	Under 2ft.	31/-	29/-	28/-	39/-
2ft. and under 2ft. 6in. :	„	32/-	30/-	29/-	40/-
2ft. 6in. and under 3ft. :	„	33/-	31/-	30/-	41/-
		Fillets for Grooves same as above.			

Circular or Gothic Heads, 11/- each.

Rebated Cross Bars, 1/3 each extra. Saddle Bars for lead lights, 10d. each.

Casements divided into four panes with Rebated Bars, 3/- each extra.

Casements divided into six panes with Rebated Bars, 5/- each extra.

For prices and sections of Fixed Lights, see pages 36 and 37.

Prices are for Square Heads, and preparation for one sheet of glass.
IMPORTANT.—For instructions as to ordering see pages 58 & 59.

SECTION No. 2A

INWARD OPENING CASEMENT WITH FRAME



Photograph of Frame with one Casement hung at side, Quality 1 (left hand), and one Casement hung at bottom, Quality 1. Fixed lights to match. All glazed with leaded lights.

SPECIFICATION

Each section is of solid rolled English Mild Steel, made from rolls cut for our exclusive use.

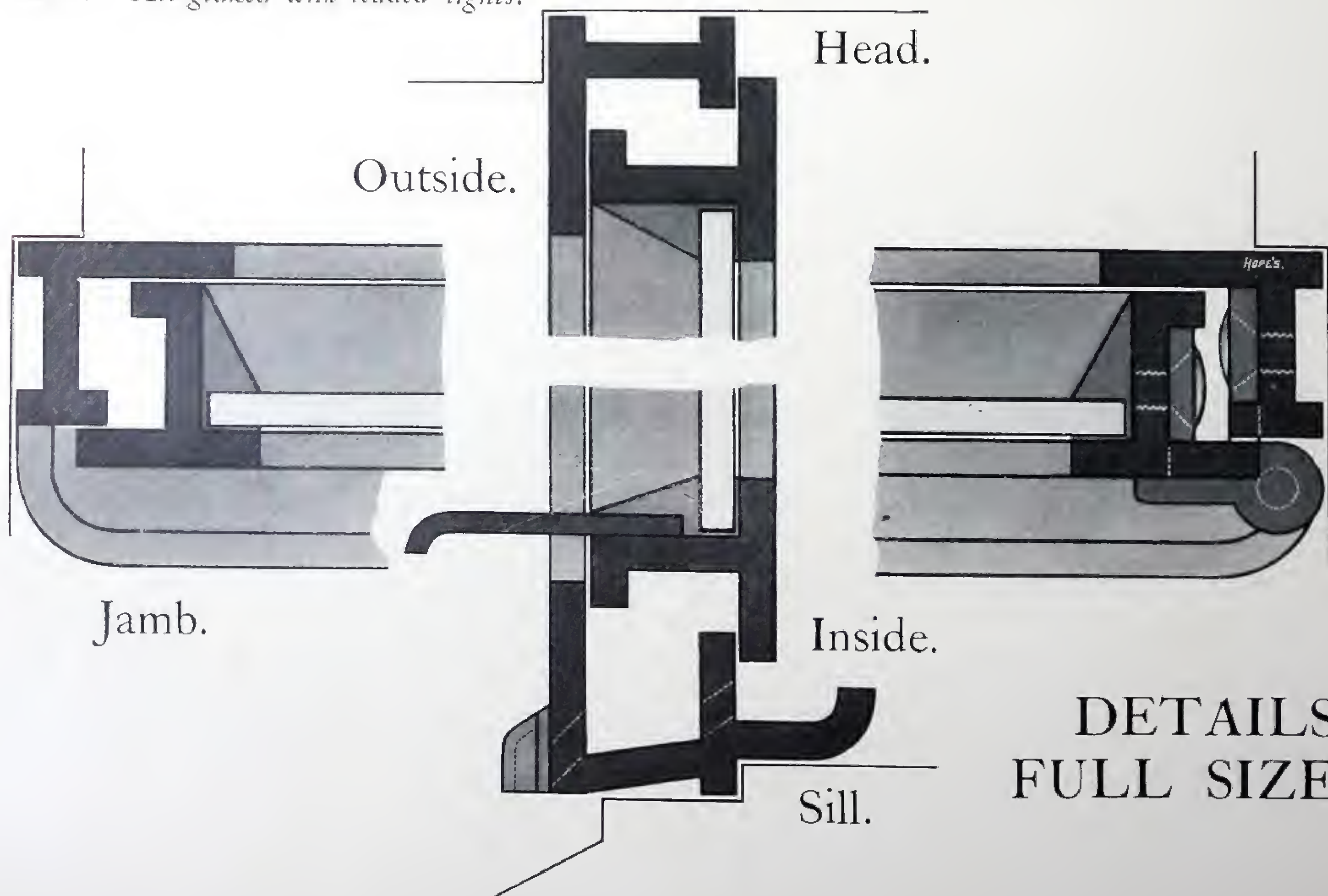
All joints cut on special milling machines, ensuring a perfect fit.

The corners of Inside and Outside Frames are rivetted and brazed.

The Handle Plate is a Mild Steel Forging, accurately machined and brazed to the casement. All brazed joints are sandblasted. This process removes the brazing flux and scale and leaves the surface of the steel in a perfect state to receive the paint.

The Hinges are of Gun-metal, with machine-cut joints and phosphor bronze pins.

The Fittings of each pattern are interchangeable, and of the best possible materials and workmanship. For full specification and designs, see pages 38 to 48.



DETAILS
FULL SIZE

HENRY HOPE & SONS LTD

PRICE LIST OF SECTION No. 2A

CASEMENTS HUNG AT SIDE

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Handle and Gun-metal Revolving Cabin Hook.

QUALITY No. 2 Painted as last, and fitted with Wrought-iron Handle and Plain Cabin Hook.

QUALITY No. 1a the same fittings as Quality 1. The sill of the Outer Frame made of solid Gun-metal, and all the surfaces of the steel ground and finished perfectly smooth, Oiled and Painted two coats of White-lead, and one coat of Enamel.

CASEMENTS of all qualities over 4ft. 6in. high are fitted with Gun-metal Double Grip Bolts, gripping the casement at top and bottom with one motion of the handle.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.	Extra for Fillets for Grooves.
Under 2ft. 6in. : : :	Under 2ft.	39/-	35/-	49/-	2/6
2ft. 6in. and under 3ft. :	„	40/-	36/-	50/-	2/6
3ft. and under 3ft. 6in. :	„	41/-	37/-	51/-	3/-
3ft. 6in. and under 4ft. :	„	43/-	39/-	54/-	3/-
4ft. and under 4ft. 6in. :	„	45/-	41/-	56/-	3/-
4ft. 6in. and under 5ft. :	„	52/-	48/-	64/-	4/-
5ft. and under 5ft. 6in. :	„	54/-	50/-	67/-	4/-

CASEMENTS HUNG AT BOTTOM

For use over Transomes of the same section and hung on Pivots and Plates to open inwards.

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Spring Catch and Folding Side-arms.

QUALITY No. 2 Painted as last, and fitted with Gun-metal Spring Catch and Plain Iron Side-arms.

QUALITY No. 1a the same as described above, for casements hung at side.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.	Extra for Fillets for Grooves.
Under 2ft. : : : :	Under 2ft.	33/-	31/-	42/-	2/6
2ft. and under 2ft. 6in. :	„	34/-	32/-	43/-	2/6
2ft. 6in. and under 3ft. :	„	35/-	33/-	44/-	2/6

Circular or Gothic Heads, 11/- each.

Rebated Cross Bars, 1/3 each extra. Saddle Bars for lead lights, 10d. each.

Casements divided into four panes with Rebated Bars, 3/- each extra.

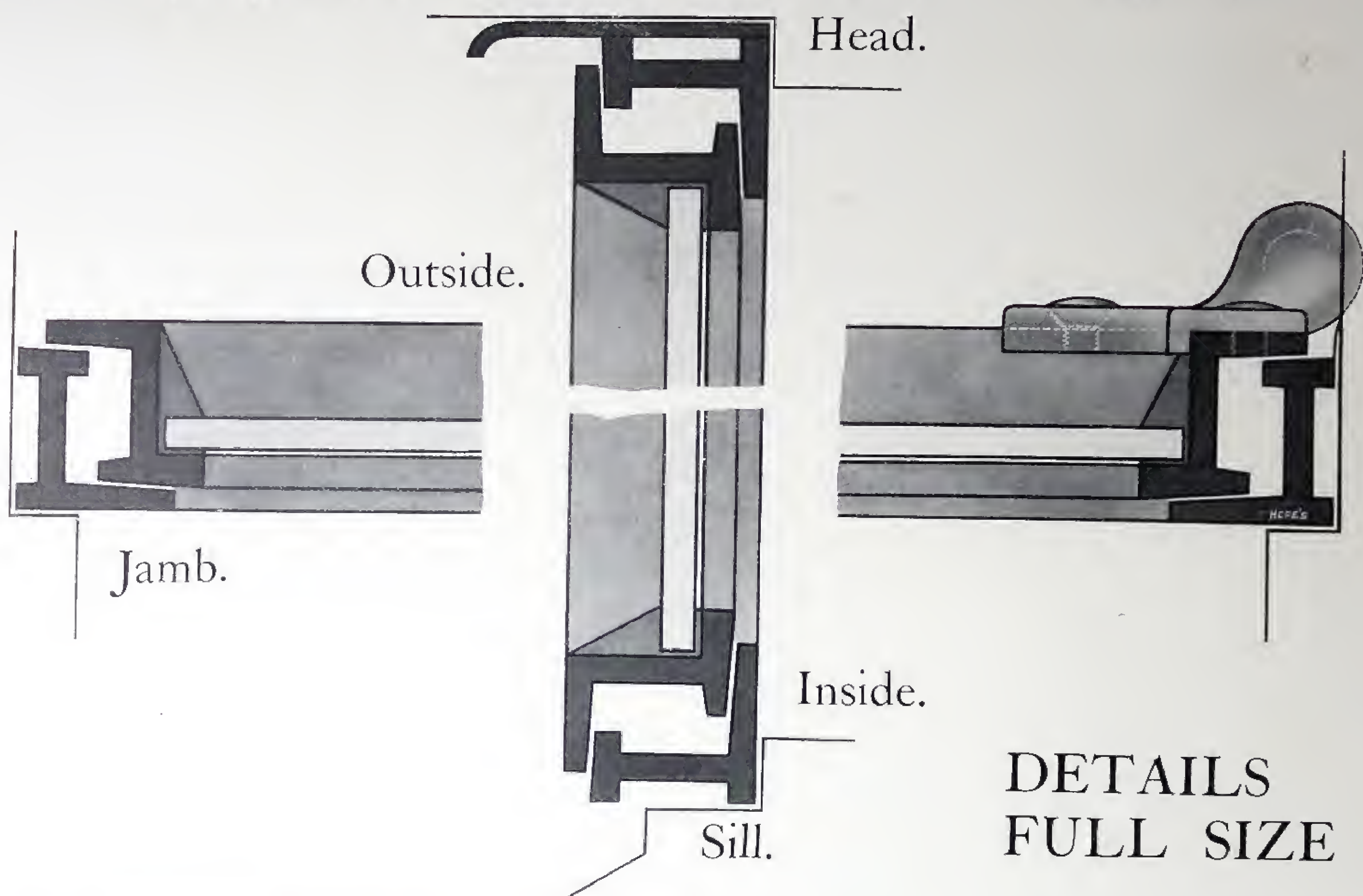
Casements divided into six panes with Rebated Bars, 5/- each extra.

For prices and sections of Fixed Lights, see pages 36 and 37.

Prices are for Square Heads, and preparation for one sheet of glass.
IMPORTANT.—For instructions as to ordering see pages 58 & 59.

SECTION No. 3

OUTWARD OPENING CASEMENT WITH FRAME



DETAILS
FULL SIZE



Photograph of Frame with one Casement hung at side, Quality 1 (left hand), and one casement above transome hung at top, Quality 1. All glazed with leaded lights.

SPECIFICATION

Each section is of solid rolled English Mild Steel, made from rolls cut for our exclusive use.

All joints cut on special milling machines, ensuring a perfect fit.

The corners of Inside and Outside Frames are rivetted and brazed.

The Handle Plate and Stay Jaw are Mild Steel Forgings, accurately machined and brazed to the casements. All brazed joints are sandblasted. This process removes the brazing flux and scale and leaves the surface of the steel in a perfect state to receive the paint.

The Hinges are Mild Steel Forgings bushed with Gun-metal and machined with great accuracy.

The Fittings of each pattern are interchangeable, and of the best possible materials and workmanship, for full specification and designs, see pages 38 to 48.

HENRY HOPE & SONS LTD

PRICE LIST OF SECTION No. 3

CASEMENTS HUNG AT SIDE

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Handle (any one of our smaller patterns) and Gun-metal Peg Stay, No. 218.

QUALITY No. 2 Painted as last, and fitted with Wrought-iron Handle and Peg Stay.

QUALITY No. 1a the same fittings as Quality 1. The sill of the Outer Frame made of solid Gun-metal, and all the surfaces of the steel ground and finished perfectly smooth, Oiled and Painted two coats of White-lead, and one coat of Enamel.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.	Extra for Fillets for Grooves.
Under 2ft. : : : :	Under 2ft.	28/-	24/-	34/-	2/6
2ft. and under 2ft. 6in. :	„	29/-	25/-	35/-	2/6
2ft. 6in. and under 3ft. :	„	30/-	26/-	36/-	2/6
3ft. and under 3ft. 6in. :	„	31/-	27/-	37/-	3/-
3ft. 6in. and under 4ft. :	„	33/-	29/-	40/-	3/-

CASEMENTS HUNG AT TOP

For use over Transomes of the same section and hung on Gun-metal Hinges to open outwards.

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Screw Opener to work with cord, fixed to either side of the casement, or jointed Arm Stay.

QUALITY No. 2 Painted as last and fitted with Gun-metal Peg Stay.

QUALITY No. 3 fitted with Iron Peg Stay.

QUALITY No. 1a the same as described above, for casements hung at side.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 3.	Quality 1a.
Under 2ft. : : : :	Under 2ft.	26/-	23/-	22/-	32/-
2ft. and under 2ft. 6in. :	„	27/-	24/-	23/-	33/-
2ft. 6in. and under 3ft. :	„	28/-	25/-	24/-	34/-

Circular or Gothic Heads, 11/- each.

Fillets for Grooves same as above.

Rebated Cross Bars, 1/3 each extra. Saddle Bars for lead lights, 10d. each.

Casements divided into four panes with Rebated Bars, 3/- each extra.

Casements divided into six panes with Rebated Bars, 5/- each extra.

For prices and sections of Fixed Lights, see pages 36 and 37.

Prices are for Square Heads, and preparation for one sheet of glass.
IMPORTANT.—For instructions as to ordering see pages 58 & 59.

SECTION No. 3A

INWARD OPENING CASEMENT WITH FRAME



Photograph of Frame with one Casement hung at side, Quality 1 (left hand), and one Casement above transome hung at top, Quality 1. Fixed lights to match. All glazed with leaded lights.

SPECIFICATION

Each section is of solid rolled English Mild Steel, made from rolls cut for our exclusive use.

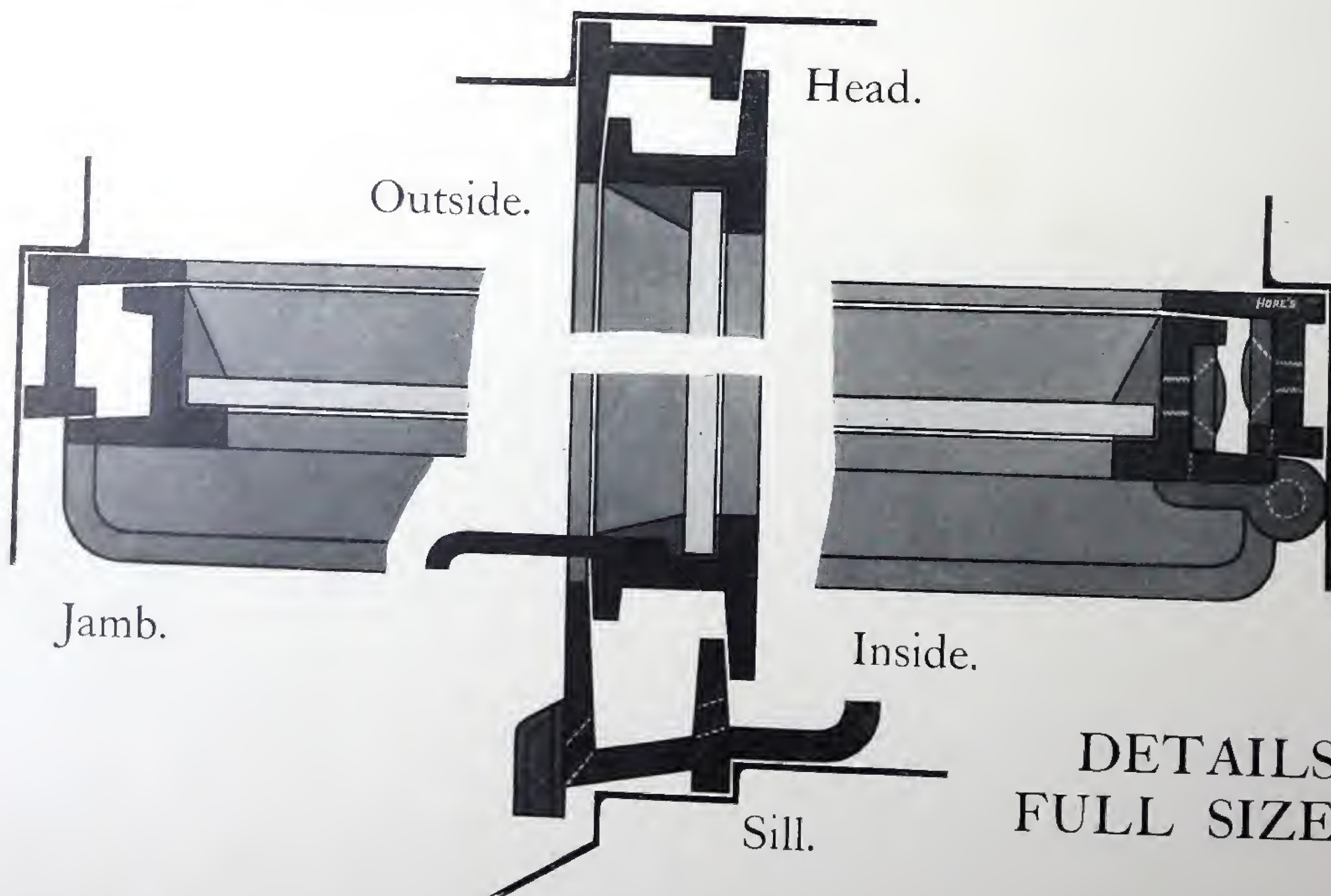
All joints are cut on special milling machines, ensuring a perfect fit.

The Corners of Inside and Outside Frames are rivetted and brazed.

The Handle Plate is a Mild Steel Forging, accurately machined and brazed to the casement. All brazed joints are sandblasted. This process removes the brazing flux and scale and leaves the surface of the steel in a perfect state to receive the paint.

The Hinges are of Gun-metal, with machine-cut joints and phosphor bronze pins.

The Fittings of each pattern are interchangeable, and of the best possible materials and workmanship, for full specification and designs, see pages 38 to 48.



DETAILS
FULL SIZE

HENRY HOPE & SONS LTD

PRICE LIST OF SECTION No. 3^A

CASEMENTS HUNG AT SIDE

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Handle (any one of our smaller patterns) and Gun-metal Revolving Cabin Hook.

QUALITY No. 2 Painted as last, and fitted with Wrought-iron Handle and Plain Cabin Hook.

QUALITY No. 1a the same fittings as Quality 1. The sill of the Outer Frame made of solid Gun-metal, and all the surfaces of the steel ground and finished perfectly smooth, Oiled and Painted two coats of White-lead, and one coat of Enamel.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.	Extra for Fillets for Grooves.
Under 2ft. : : : :	Under 2ft.	32/-	28/-	40/-	2/6
2ft. and under 2ft. 6in. :	„	33/-	29/-	41/-	2/6
2ft. 6in. and under 3ft. :	„	34/-	30/-	42/-	2/6
3ft. and under 3ft. 6in. :	„	35/-	31/-	43/-	3/-
3ft. 6in. and under 4ft. :	„	37/-	33/-	46/-	3/-

CASEMENTS HUNG AT BOTTOM

For use over Transomes of the same section and hung on Pivots and Plates to open inwards.

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Spring Catch and Folding Side-arms.

QUALITY No. 2 Painted as last, and fitted with Gun-metal Spring Catch and Plain Iron Side-arms.

QUALITY No. 1a the same as described above, for casements hung at side.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.	Extra for Fillets for Grooves.
Under 2ft. : : : :	Under 2ft.	27/-	25/-	33/-	2/6
2ft. and under 2ft. 6in. :	„	28/-	26/-	34/-	2/6
2ft. 6in. and under 3ft. :	„	29/-	27/-	35/-	2/6

Circular or Gothic Heads, 11/- each extra.

Rebated Cross Bars, 1/3 each extra. Saddle Bars for lead lights, 10d. each.

Casements divided into four panes with Rebated Bars, 3/- each extra.

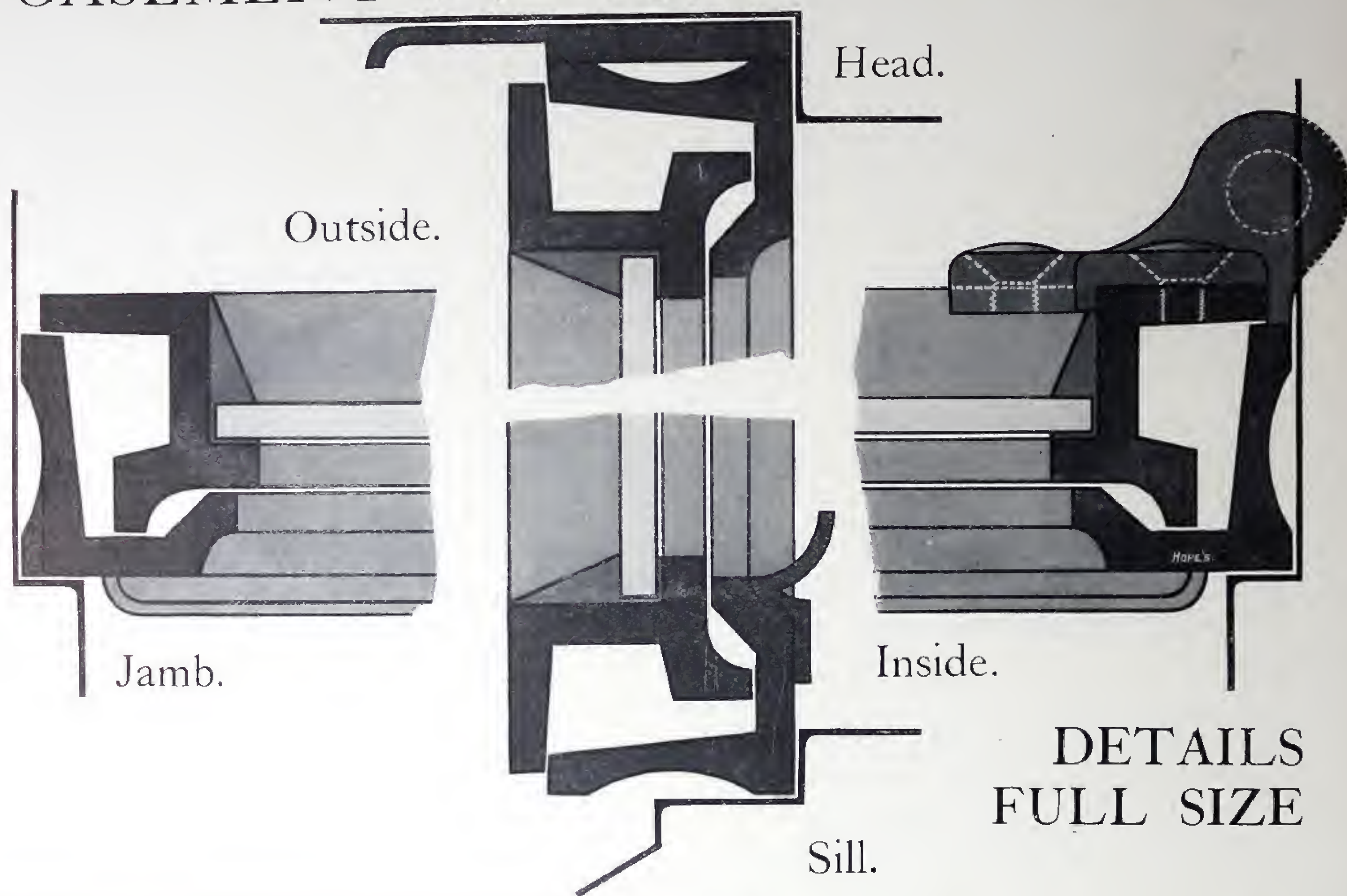
Casements divided into six panes with Rebated Bars, 5/- each extra.

For prices and sections of Fixed Lights, see pages 36 and 37.

Prices are for Square Heads, and preparation for one sheet of glass.

IMPORTANT.—For instructions as to ordering see pages 58 & 59.

MOULDED SECTION OUTWARD OPENING CASEMENT WITH FRAME



Photograph of Frame with one Casement hung at side, Quality 1 (left hand), and one hung at top, Quality 1. All glazed with leaded lights.

SPECIFICATION

Each section is of solid rolled English Mild Steel, made from rolls cut for our exclusive use.

All joints cut on special milling machines, ensuring a perfect fit.

The Corners are rivetted and brazed. The Handle Plate and Stay Jaw are Mild Steel Forgings, accurately machined and brazed to the casements. All brazed joints are sandblasted. This process removes the brazing flux and scale and leaves the surface of the steel in a perfect state to receive the paint.

The Hinges are Mild Steel Forgings bushed with Gun-metal and machined with great accuracy.

The Fittings of each pattern are interchangeable, and of the best possible materials and workmanship. For illustrations and full specification, see pages 38 to 48.

HENRY HOPE & SONS LTD

PRICE LIST OF MOULDED SECTION CASEMENTS HUNG AT SIDE

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Handle and either Gun-metal Screw and Swivel Stay or Peg Stay.

QUALITY No. 2 Painted as last, and fitted with Wrought-iron Handle and Peg Stay.

QUALITY No. 1a the same fittings as Quality 1. The sill of the Outer Frame made of solid Gun-metal, and all the surfaces of the steel ground and finished perfectly smooth, Oiled and Painted two coats of White-lead, and one coat of Enamel.

CASEMENTS of all qualities over 4ft. 6in. high are fitted with Gun-metal Double Grip Bolts working on Gun-metal plates, gripping the casement at top and bottom with one motion of the handle.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.	Extra for Fillets for Grooves.
Under 3ft. : : :	Under 2ft.	46/-	42/-	58/-	2/6
3ft. and under 3ft. 6in. :	„	48/-	44/-	60/-	3/-
3ft. 6in. and under 4ft. :	„	50/-	46/-	62/-	3/-
4ft. and under 4ft. 6in. :	„	52/-	48/-	65/-	3/-
4ft. 6in. and under 5ft. :	„	66/-	61/-	79/-	4/-
5ft. and under 5ft. 6in. :	„	68/-	63/-	82/-	4/-
5ft. 6in. and under 6ft. :	„	71/-	66/-	84/-	4/6

CASEMENTS HUNG AT TOP

For use over Transomes of the same section and hung on Gun-metal Hinges to open outwards.

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Screw Opener to work with cord, fixed to either side of the casement, or Jointed Arm Stay.

QUALITY No. 2 Painted as last, and fitted with Gun-metal Peg Stay.

QUALITY No. 3 fitted with Iron Peg Stay.

QUALITY No. 1a the same as described above for casements hung at side.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 3.	Quality 1a.
Under 2ft. 6in. : : :	Under 2ft.	42/-	39/-	37/-	52/-
2ft. 6in. and under 3ft. :	„	44/-	41/-	39/-	54/-
Fillets for Grooves same as above.					

Circular or Gothic Heads, 12/- each.

Rebated Cross Bars, 1/3 each extra. Saddle Bars for lead lights, 10d. each

Casements divided into four panes with Rebated Bars, 3/- each extra.

Casements divided into six panes with Rebated Bars, 5/- each extra.

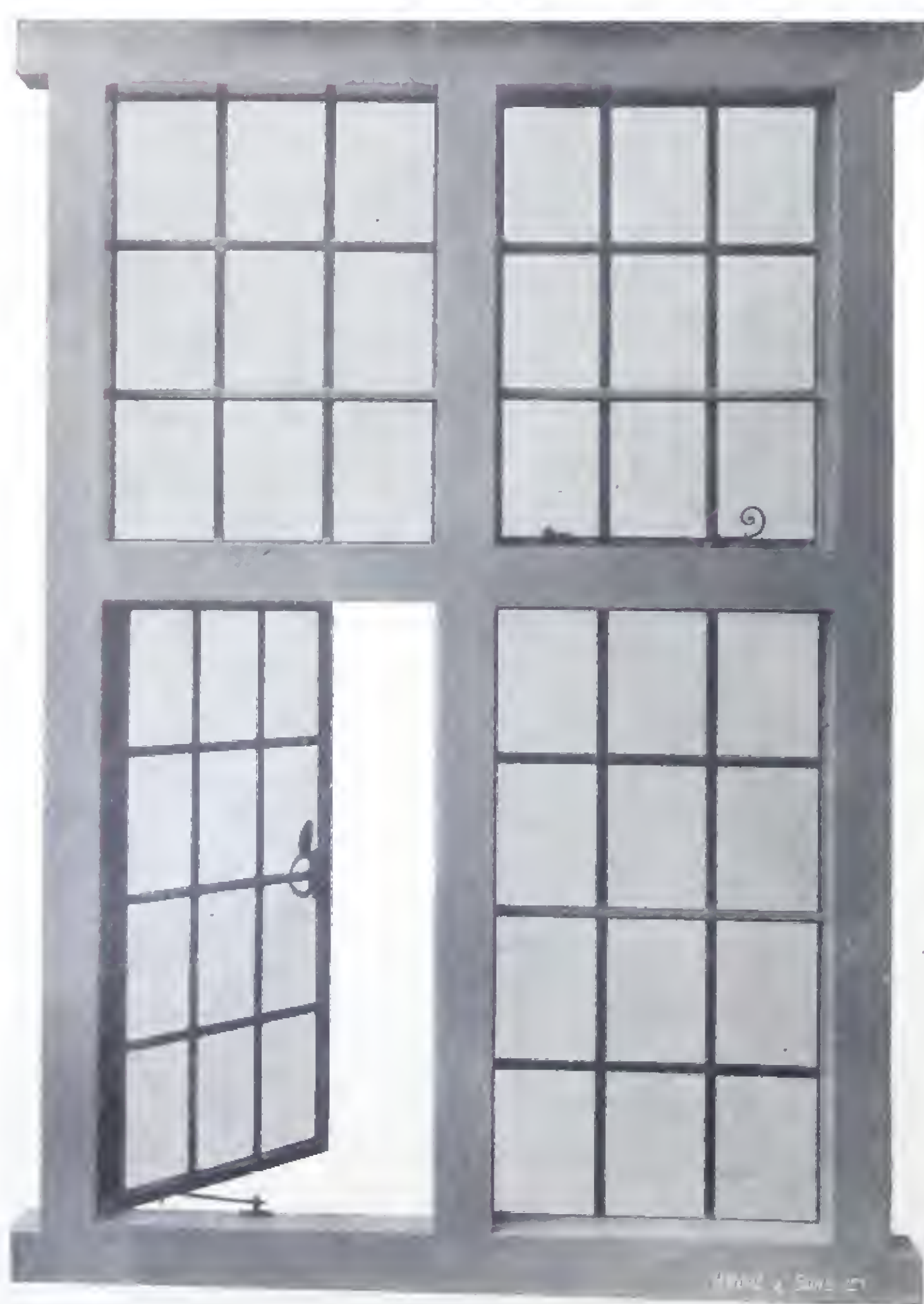
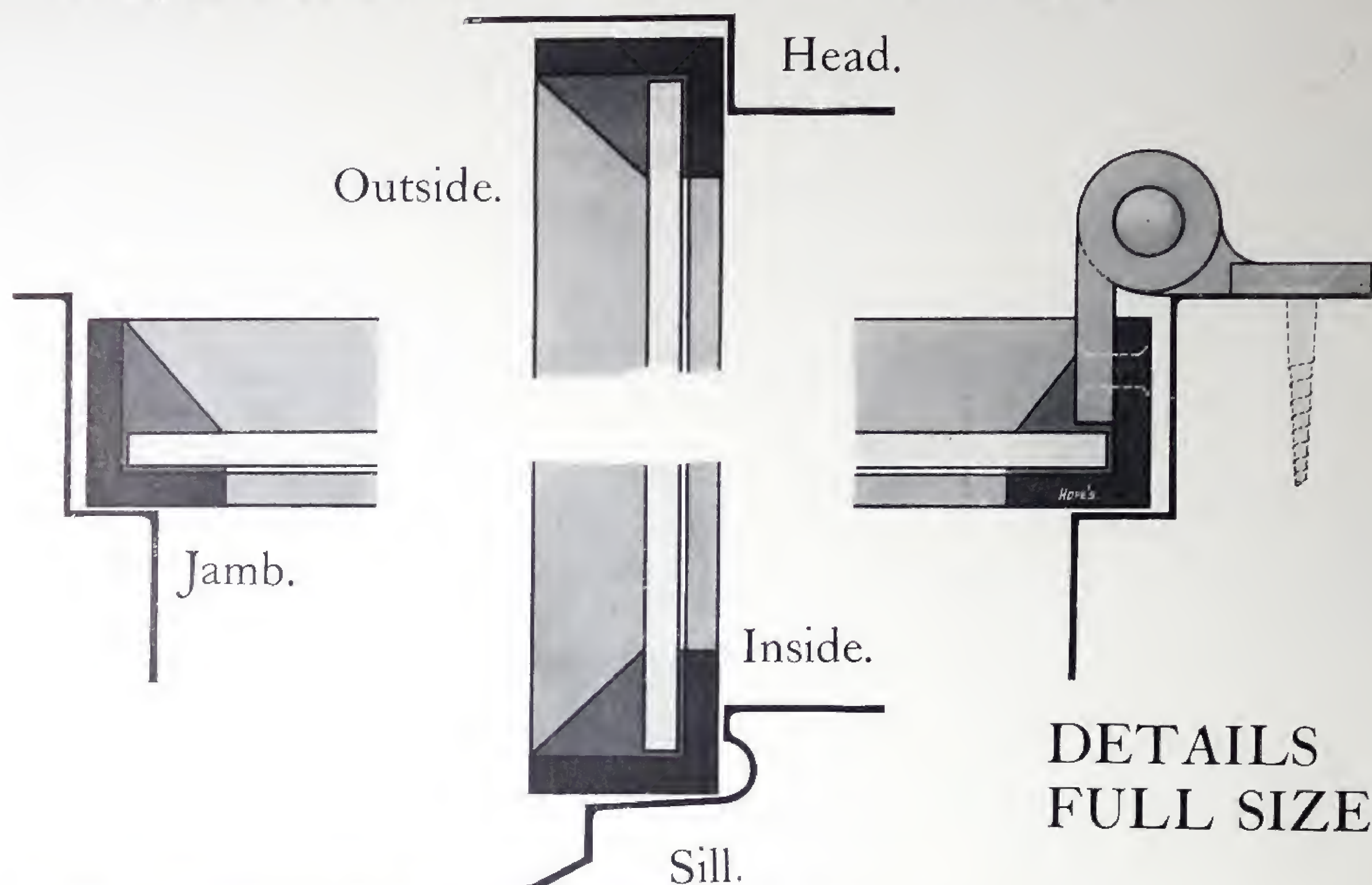
For prices and sections of Fixed Lights, see pages 36 and 37.

Prices are for Square Heads, and preparation for one sheet of glass.

IMPORTANT.—For instructions as to ordering see pages 58 & 59.

SECTION No. 8

OUTWARD OPENING CASEMENT WITHOUT FRAME



Photograph of Frame with one Casement hung at side, Quality 2 (left-hand), and one Casement hung at top, Quality 2. All glazed with leaded lights with $\frac{3}{8}$ in. leads.

SPECIFICATION

The section is of solid rolled English Mild Steel, made from rolls cut for our exclusive use.

All joints cut on special milling machines, ensuring a perfect fit.

The Corners are rivetted and brazed. The Handle Plate and Stay Jaw are Mild Steel Forgings, accurately machined and brazed to the casements. All brazed joints are sandblasted. This process removes the brazing flux and scale and leaves the surface of the steel in a perfect state to receive the paint.

The Hinges are of the Hook-and-Band pattern, the Hook being of Gun-metal, and the Band of Wrought-iron. The Fittings of each pattern are interchangeable, and of the best possible materials and workmanship. For illustrations and full specification, see pages 38 to 48.

HENRY HOPE & SONS L^D

PRICE LIST OF SECTION No. 8

CASEMENTS HUNG AT SIDE

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Handle (any one of our smaller patterns) and Gun-metal Peg Stay, No. 218.

QUALITY No. 2 Painted as last, and fitted with Wrought-iron Handle and Bronze Cabin Hook.

QUALITY No. 1a the same fittings as Quality 1. The surfaces of the steel ground and finished perfectly smooth, Oiled and Painted two coats of White-lead, and one coat of Enamel.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.
Under 2ft. : : : : :	Under 2 feet.	16/-	14/-	18/-
2ft. and under 2ft. 6in. : :	„	16/6	14/6	18/6
2ft. 6in. and under 3ft. : :	„	17/-	15/-	19/-
3ft. and under 3ft. 6in. : :	„	18/-	16/-	20/-
3ft. 6in. and under 4ft. : :	„	19/-	17/-	21/-

CASEMENTS HUNG AT TOP

For use over Transomes of the same section and hung on Hook Hinges to open outwards.

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Peg Stay, No. 218.

QUALITY No. 2 fitted with Iron Peg Stay.

QUALITY No. 1a the same as described above, for casements hung at side.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.
Under 2ft. 6in. : : : :	Under 2 feet.	16/6	15/6	18/6
2ft. 6in. and under 3ft. : :	„	17/-	16/-	19/-

Circular or Gothic Heads, 5/- each extra.

Rebated Cross Bars, 1/3 each extra. Saddle Bars for lead lights, 8d. each.

Casements divided into four panes with Rebated Bars, 3/- each extra.

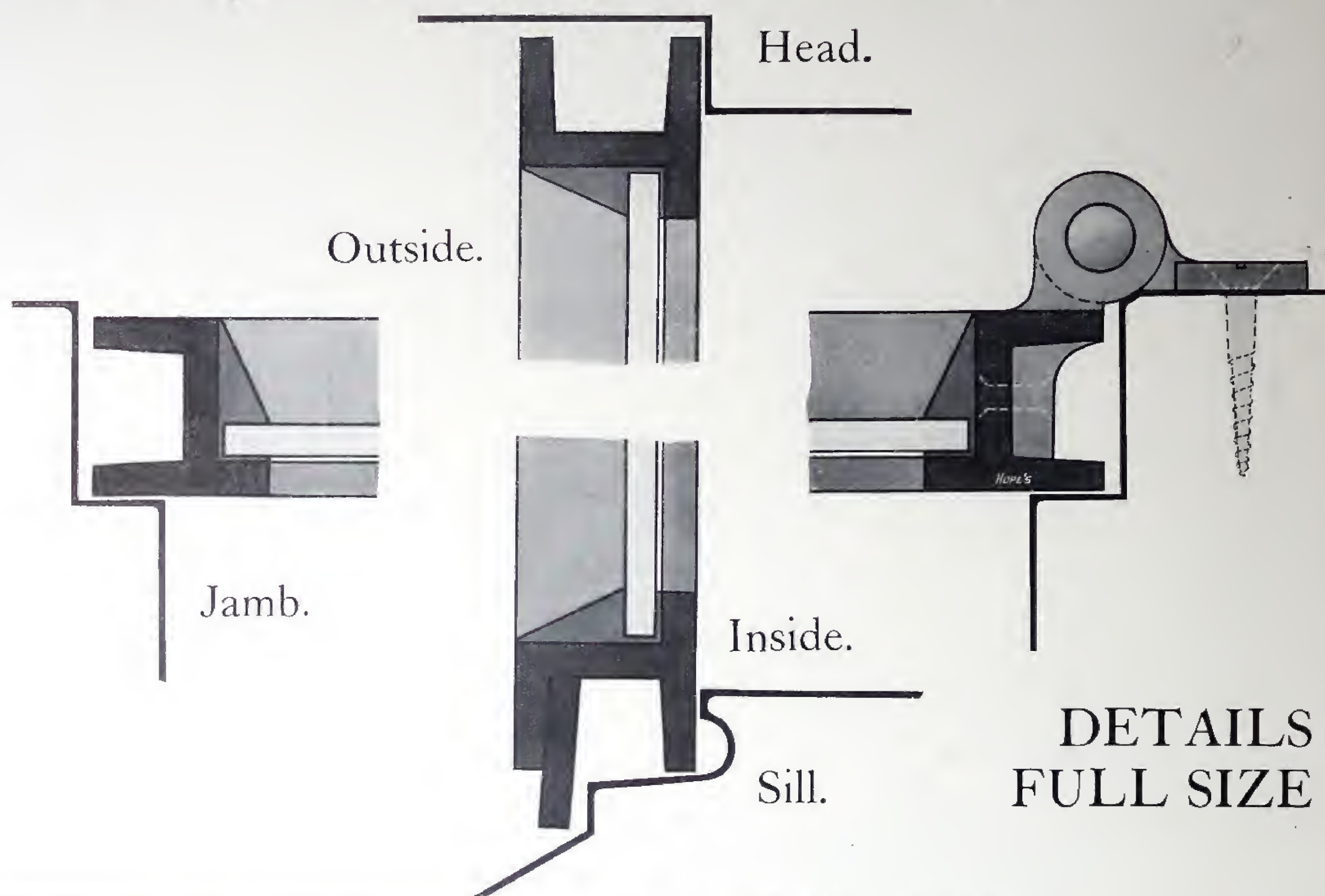
Casements divided into six panes with Rebated Bars, 5/- each extra.

For prices and sections of Fixed Lights, see pages 36 and 37.

Prices are for Square Heads, and preparation for one sheet of glass.
IMPORTANT.—For instructions as to ordering see pages 58 & 59.

SECTION No. 9

OUTWARD OPENING CASEMENT WITHOUT FRAME



DETAILS
FULL SIZE



Photograph of Frame with one Casement hung at side, Quality 1 (left-hand), and one Casement hung at top, Quality 1. All glazed with leaded lights with $\frac{5}{8}$ in. leads.

SPECIFICATION

The section is of solid rolled English Mild Steel, made from rolls cut for our exclusive use.

All joints cut on special milling machines, ensuring a perfect fit.

The Corners are rivetted and brazed.

The Handle Plate and Stay Jaw are Mild Steel Forgings, accurately machined and brazed to the casements.

All brazed joints are sandblasted. This process removes the brazing flux and scale and leaves the surface of the steel in a perfect state to receive the paint.

The Hinges are of the Hook-and-Band pattern, the Hook being of Gun-metal and the Band of Wrought-iron.

The Fittings of each pattern are interchangeable, and of the best possible materials and workmanship. For illustrations and full specification, see pages 38 to 48.

HENRY HOPE & SONS LTD

PRICE LIST OF SECTION No. 9

CASEMENTS HUNG AT SIDE

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Handle and either Gun-metal Screw and Swivel Stay or Peg Stay.

QUALITY No. 2 Painted as last, and fitted with Wrought-iron Handle and Peg Stay or two Bronze Cabin Hooks.

QUALITY No. 1a the same fittings as Quality 1. All the surfaces of the steel ground and finished perfectly smooth, Oiled and Painted two coats of White-lead, and one coat of Enamel.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.
Under 2ft. : : : : :	Under 2 feet.	20/-	18/-	22/6
2ft. and under 2ft. 6in. : :	„	21/-	19/-	23/6
2ft. 6in. and under 3ft. : :	„	22/-	20/-	24/6
3ft. and under 3ft. 6in. : :	„	23/-	21/-	25/6
3ft. 6in. and under 4ft. : :	„	24/6	22/6	27/-
4ft. and under 4ft. 6in. : :	„	26/-	24/-	29/-

CASEMENTS HUNG AT TOP

For use over Transomes of the same section and hung on Hook Hinges to open outwards.

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Peg Stay.

QUALITY No. 2 fitted with Iron Peg Stay.

QUALITY No. 1a the same as described above, for casements hung at side.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.
Under 2ft. 6in. : : : :	Under 2 feet.	21/-	20/-	23/6
2ft. 6in. and under 3ft. : :	„	22/-	21/-	24/6

Circular or Gothic Heads, 6/- each extra.

Rebated Cross Bars, 1/3 each extra. Saddle Bars for lead lights, 10d. each.

Casements divided into four panes with Rebated Bars, 3/- each extra.

Casements divided into six panes with Rebated Bars, 5/- each extra.

For prices and sections of Fixed Lights, see pages 36 and 37.

Prices are for Square Heads, and preparation for one sheet of glass.

IMPORTANT.—For instructions as to ordering see pages 58 & 59.

HOPE'S CLEANING CASEMENTS

SECTION No. 1c.



Photograph of Frame with one casement hung on vertical pivots, Quality 1, and two fixed lights, all with \perp bars and glazed with sheet glass. It will be observed that the outside of the casement and the two fixed lights can all be cleaned from the inside. Ample space is allowed for cleaning without an objectionable projection of the casement inside.

SPECIFICATION

Each section is of solid rolled Steel. The Weather Bars are Gun-metal. The Hinges are Gun-metal of great strength, and entirely machine-made with phosphor bronze pins.

There is an ample Condensation Channel in the bottom rail of the frame.

The inward opening portion of the Casement is not cut away, the full strength of the section being preserved throughout.

The method of manufacture is the same as with all our Casements. The joints are made on milling machines of great precision, and no operation is left to the chance of bad workmanship by hand labour. Every joint after machining is rivetted, brazed and sandblasted, and the finished Casements are subjected to a rigid inspection before being despatched.

The Handle Plate and Stay Jaw are of Mild Steel Forgings, accurately machined and brazed to the casements.

The Fittings of each pattern are interchangeable, and of the best possible materials and workmanship. For designs and full specification, see pages 38 to 48.

NOTE—We have designed this pattern to meet the demand for a Casement the outside of which can be cleaned from the inside. Many complicated methods have been tried to effect this purpose. Unlike all of these our Casement has no movable parts, and is opened and closed like an ordinary casement; the same movement used for ventilation applies also for cleaning. There is real economy in the use of "Hope's Cleaning Casements," particularly for high buildings on street fronts. The saving in cost of cleaning quickly repays the first outlay. This Section is immensely strong, and is specially recommended for very large casements. See Section 2c, page 27, for lighter section.

*Prices are for Square Heads, and preparation for one sheet of glass.
IMPORTANT.—For instructions as to ordering see pages 58 & 59.*

HOPE'S CLEANING CASEMENTS

PRICE LIST OF SECTION No. 1c.

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Handle and either Gun-metal Screw and Swivel Stay or Peg Stay.

QUALITY No. 2 Painted as last, and fitted with Wrought-iron Handle and Peg Stay.

QUALITY No. 1a the same fittings as Quality 1. The sill of the Outer Frame made of solid Gun-metal, and all the surfaces of the steel ground and finished perfectly smooth, Oiled and Painted two coats of White-lead, and one coat of Enamel.

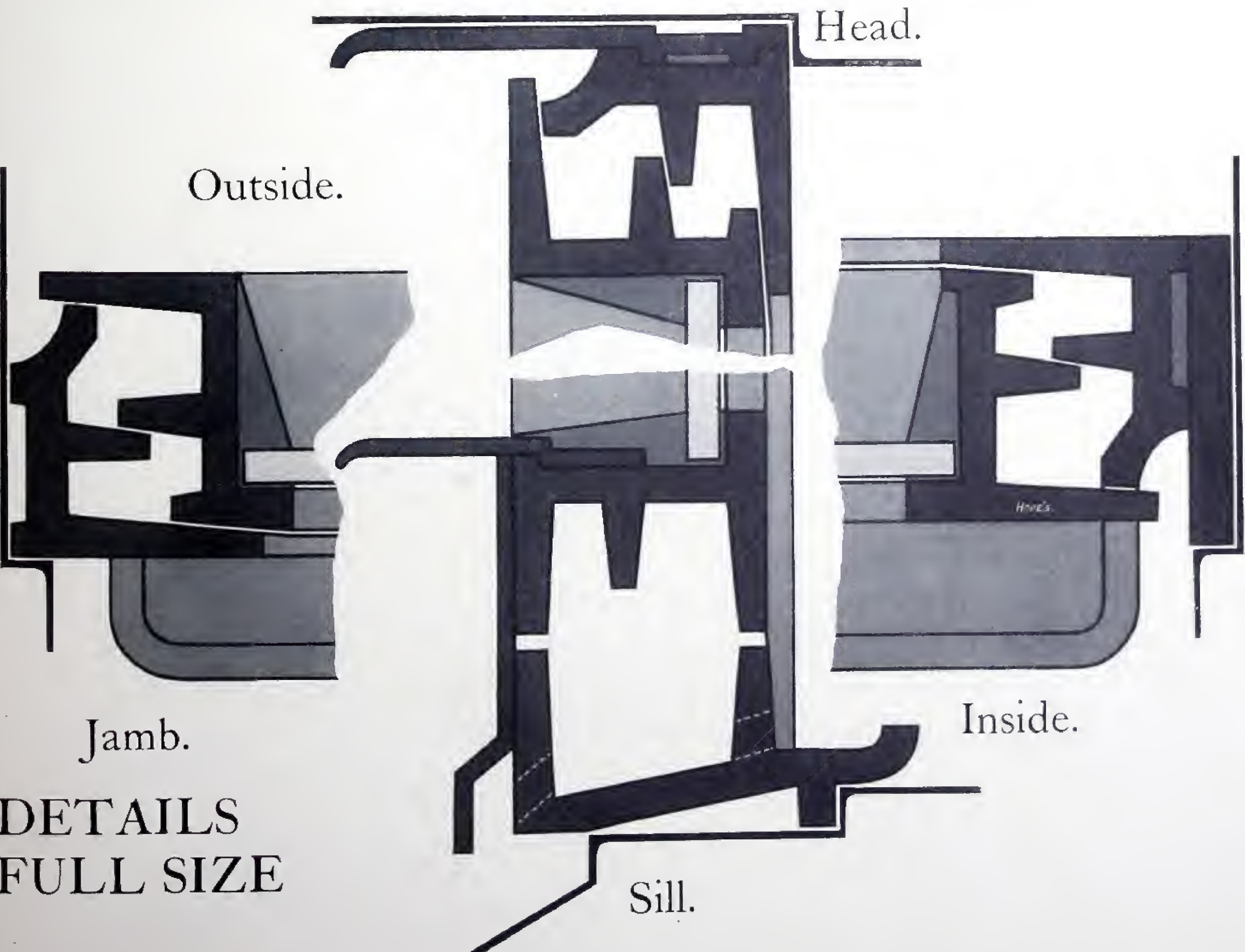
CASEMENTS of all qualities over 4ft. 6in. high are fitted with Gun-metal Double Grip Bolts (see page 47), gripping the casement at top and bottom with one motion of the handle, and a handle in the middle of the inward opening side for additional security.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.	Extra for Fillets for Grooves.
Under 3ft. 6in. : : :	Under 3 feet.	70/-	66/-	83/-	4/-
3ft. 6in. and under 4ft. :	„	73/-	69/-	86/-	4/6
4ft. and under 4ft. 6in. :	„	76/-	72/-	89/-	5/-
4ft. 6in. and under 5ft. :	„	90/-	85/-	103/-	5/6
5ft. and under 5ft. 6in. :	„	93/-	88/-	106/-	6/-
5ft. 6in. and under 6ft. :	„	96/-	91/-	110/-	6/6
6ft. and under 6ft. 6in. :	„	99/-	94/-	113/-	7/-
6ft. 6in. and under 7ft. :	„	102/-	97/-	117/-	7/6

Rebated Cross Bars, 1/3 each extra. Saddle Bars for lead lights, 10d. each.

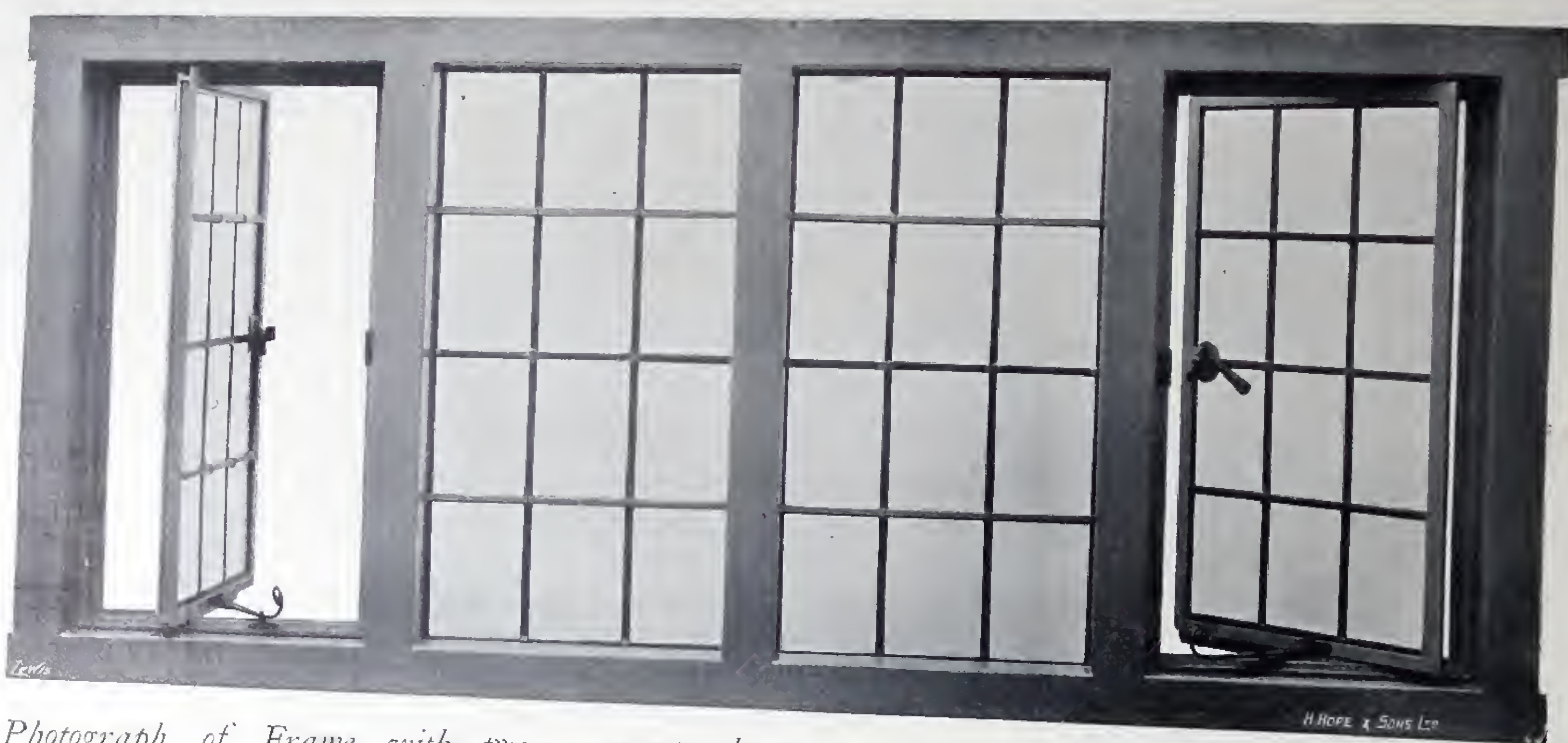
Casements divided into four panes with Rebated Bars, 3/- each extra.

Casements divided into six panes with Rebated Bars, 5/- each extra.



HOPE'S CLEANING CASEMENTS

SECTION No. 2c.



Photograph of Frame with two casements hung on vertical pivots, Quality 1, all glazed with leaded lights. It will be observed that the outside of the casements and the adjoining fixed lights can all be cleaned from the inside. Ample space is allowed for cleaning without an objectionable projection of the casement inside.

SPECIFICATION

Each section is of solid rolled Steel. The Weather Bars are Gun-metal.

The Hinges are Gun-metal of great strength, and entirely machine-made with phosphor bronze pins.

There is an ample Condensation Channel in the bottom rail of the frame.

The inward opening portion of the Casement is not cut away, the full strength of the section being preserved throughout.

The method of manufacture is the same as with all our Casements. The joints are made on milling machines of great precision, and no operation is left to the chance of bad workmanship by hand labour. Every joint after machining is rivetted, brazed and sandblasted, and the finished Casements are subjected to a rigid inspection before being despatched.

The Handle Plate and Stay Jaw are of Mild Steel Forgings, accurately machined and brazed to the casements.

The Fittings of each pattern are interchangeable, and of the best possible materials and workmanship. For designs and full specification, see pages 38 to 48.

NOTE—We have had practical experience in making most of the “Cleaning” Casements which have been patented during the last few years. All of these patents involve the use of more or less complicated movable parts, and experience has proved that these movable parts, even when in good order, give far too much trouble to those who have to use them. Even under the best conditions, exposure to the atmosphere and the necessary periodical painting speedily render any movable devices totally unserviceable. There are no movable parts in our “Cleaning Casement,” and its merit lies in simplicity and perfect construction. The opening and closing movements are the same as in an ordinary casement, and there are no reversing devices which can be left unfastened by a window cleaner.

*Prices are for Square Heads, and preparation for one sheet of glass.
IMPORTANT.—For instructions as to ordering see pages 58 & 59.*

HOPE'S CLEANING CASEMENTS

PRICE LIST OF SECTION No. 2c.

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Handle and either Gun-metal Screw and Swivel Stay or Peg Stay.

QUALITY No. 2 Painted as last, and fitted with Wrought-iron Handle and Peg Stay.

QUALITY No. 1a the same fittings as Quality 1. The sill of the Outer Frame made of solid Gun-metal, and all the surfaces of the steel ground and finished perfectly smooth, Oiled and Painted two coats of White-lead, and one coat of Enamel.

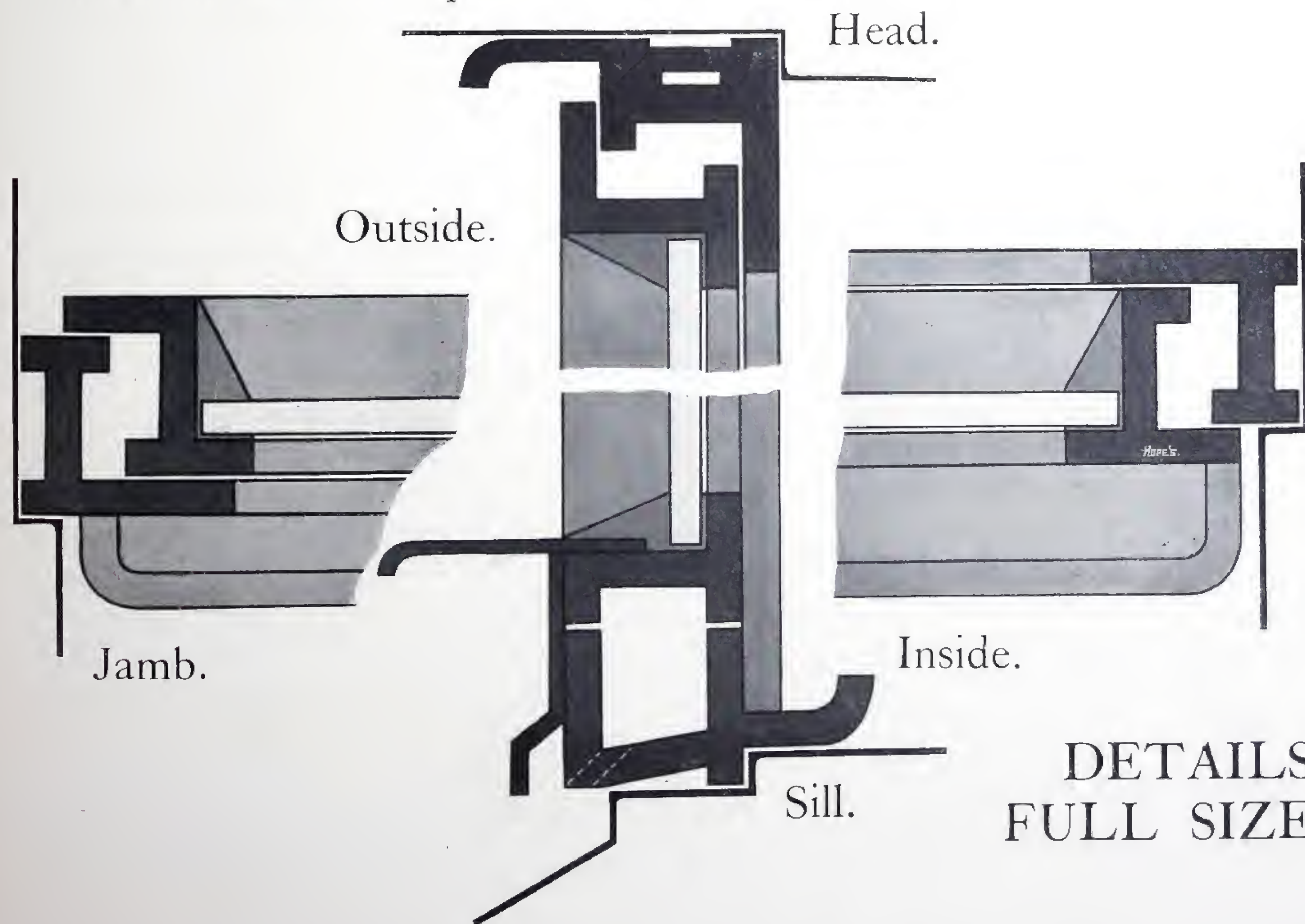
CASEMENTS of all qualities over 4ft. 6in. high are fitted with Gun-metal Double Grip Bolts (see page 47), gripping the casement at top and bottom with one motion of the handle, and a handle in the middle of the inward opening side for additional security.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.	Extra for Fillets for Grooves.
Under 2ft. 6in. : : :	Under 2ft.	49/-	45/-	59/-	3/6
2ft. 6in. and under 3ft. :	„	50/-	46/-	60/-	3/6
3ft. and under 3ft. 6in. :	„	51/-	47/-	61/-	4/-
3ft. 6in. and under 4ft. :	„	52/-	48/-	63/-	4/6
4ft. and under 4ft. 6in. :	„	54/-	50/-	65/-	5/-
4ft. 6in. and under 5ft. :	„	70/-	66/-	82/-	5/6
5ft. and under 5ft. 6in. :	„	71/-	67/-	84/-	5/6

Rebated Cross Bars, 1/3 each extra. Saddle Bars for lead lights, 10d. each.

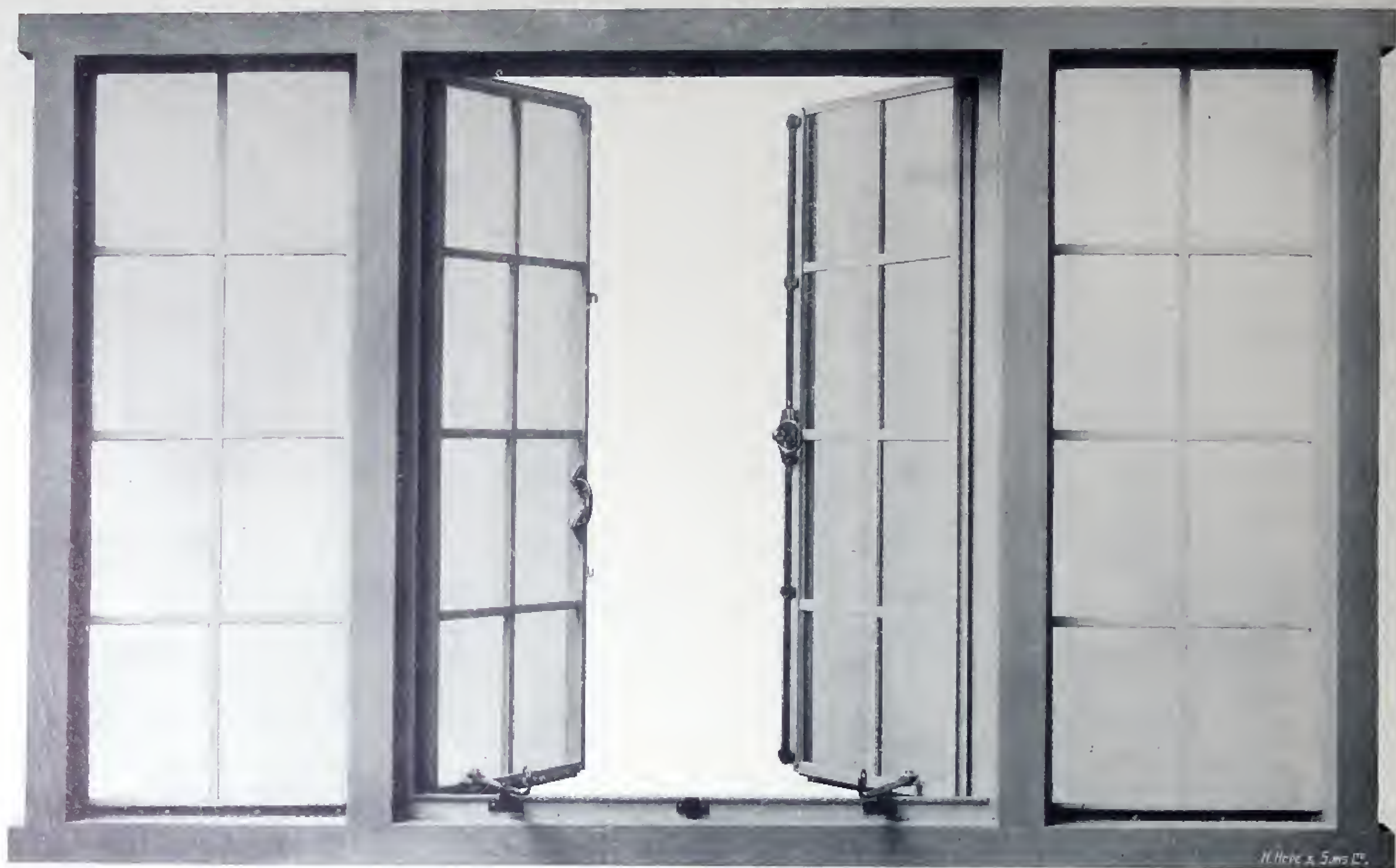
Casements divided into four panes with Rebated Bars, 3/- each extra.

Casements divided into six panes with Rebated Bars, 5/- each extra.



HENRY HOPE & SONS LTD

FOLDING CASEMENTS & FRAMES



Photograph of Frame with one pair of Casements over 4ft. 6in. high, Section 1, Quality 1, and two L section fixed lights. All with 1 bars and glazed with sheet glass.

SPECIFICATION

Each section is of solid rolled English Mild Steel.

All joints cut on special milling machines, ensuring a perfect fit.

The Corners of Inside and Outside Frames are rivetted and brazed.

The Handle Plate and Stay Jaws are Mild Steel Forgings, accurately machined and brazed to the casement.

All brazed joints are sandblasted. This removes the brazing flux and scale and leaves the surface of the steel in a perfect state to receive the paint. The Hinges are of Mild Steel Forgings bushed with Gun-metal and machined with great accuracy.

The Fittings of each pattern are interchangeable, and of the best possible materials and workmanship. For specification and designs see pages 38 to 48.

NOTE.—The above casements can be made with a mullion in the centre, at an extra cost of 10 per cent. to the prices on page 29.

Folding Casements and Frames to open INWARDS of Sections 1a and 2a will be supplied at the same prices.

For prices and sections of Fixed Lights, see pages 36 and 37.

Where Casements are used as doors, the Stays are omitted and Gun-metal Cabin Hooks provided instead, at a reduction of 5/- each for Quality 1, and 4/- each for Quality 2.

Prices are for Square Heads, and preparation for one sheet of glass.
IMPORTANT.—For instructions as to ordering see pages 58 & 59.

HENRY HOPE & SONS LTD

FOLDING CASEMENTS & FRAMES

PRICE LIST OF SECTION No. 1

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Handle on right-hand casement and two Gun-metal Bolts on left-hand casement, & either Gun-metal Swivel Stays or Peg Stays.

QUALITY No. 2 Painted as last, and fitted with Wrought-iron Handle and Gun-metal Bolts as last, and Wrought-iron Peg Stays.

QUALITY No. 1a the same fittings as Quality 1. The sill of the Outer Frame made of solid Gun-metal, and all the surfaces of the steel ground and finished perfectly smooth, Oiled and Painted two coats of White-lead, and one coat of Enamel.

Casements of all qualities over 4ft. 6in. high are fitted with Gun-metal Espagnolette Bolt (see page 47) on the right-hand casement, gripping both casements at top and bottom with one motion of the handle, and a fixed handle on the left-hand casement.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.	Extra for Fillets for Grooves.
Under 4ft. : : : :	Under 4ft.	98/-	91/-	120/-	4/-
4ft. and under 4ft. 6in. :	„	102/-	95/-	124/-	4/6
4ft. 6in. and under 5ft. :	„	124/-	117/-	146/-	4/6
5ft. and under 5ft. 6in. :	„	128/-	121/-	161/-	5/-
5ft. 6in. and under 6ft. :	„	132/-	125/-	155/-	5/6
6ft. and under 6ft. 6in. :	„	137/-	130/-	161/-	6/6
6ft. 6in. and under 7ft. :	„	143/-	136/-	167/-	7/6

PRICES OF SECTION No. 2 For detail see page 10.

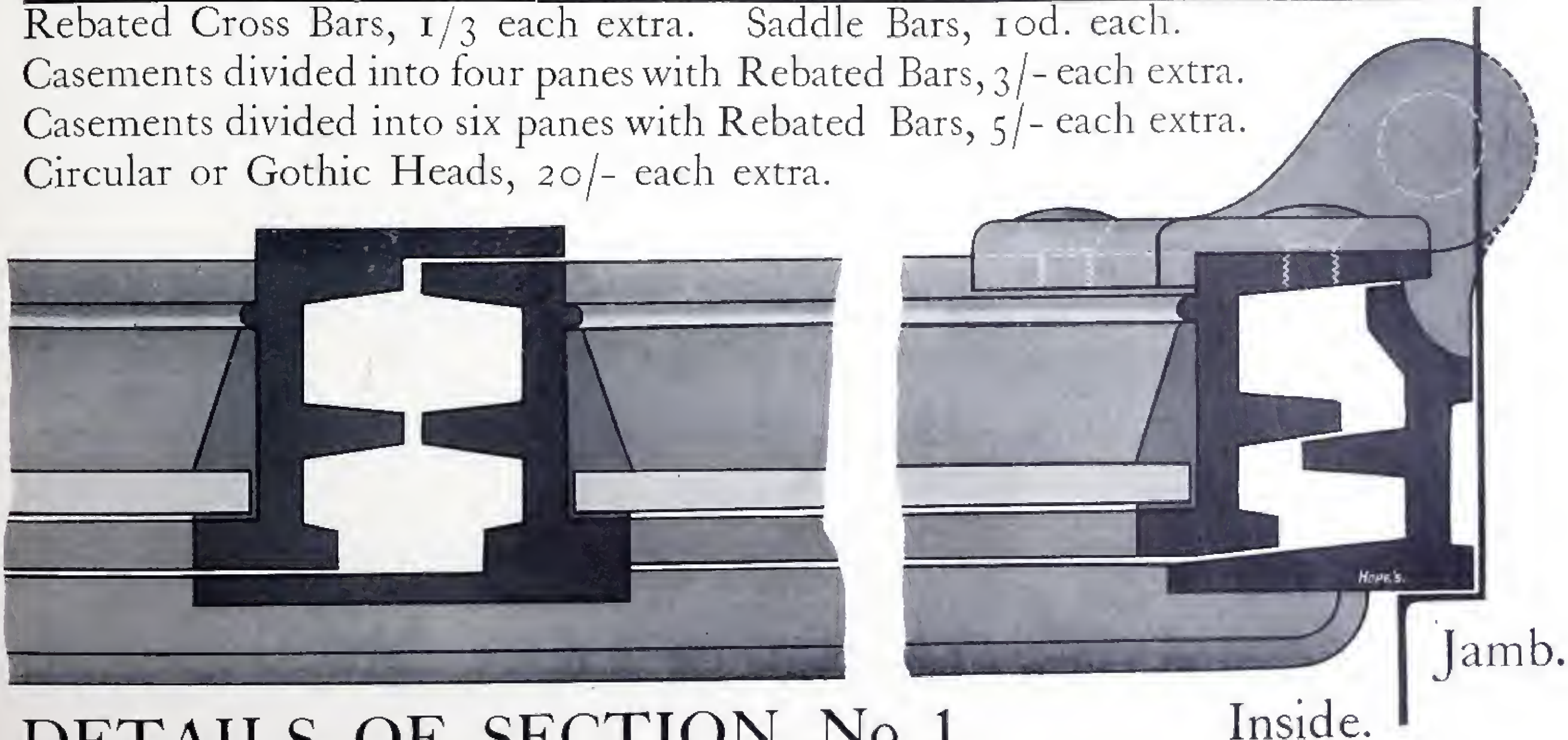
Under 3ft. 6in. : : :	Under 4ft.	80/-	73/-	100/-	4/-
3ft. 6in. and under 4ft. :	„	84/-	77/-	104/-	4/-
4ft. and under 4ft. 6in. :	„	88/-	81/-	109/-	4/6
4ft. 6in. and under 5ft. :	„	109/-	102/-	130/-	4/6
5ft. and under 5ft. 6in. :	„	113/-	106/-	135/-	5/-

Rebated Cross Bars, 1/3 each extra. Saddle Bars, 10d. each.

Casements divided into four panes with Rebated Bars, 3/- each extra.

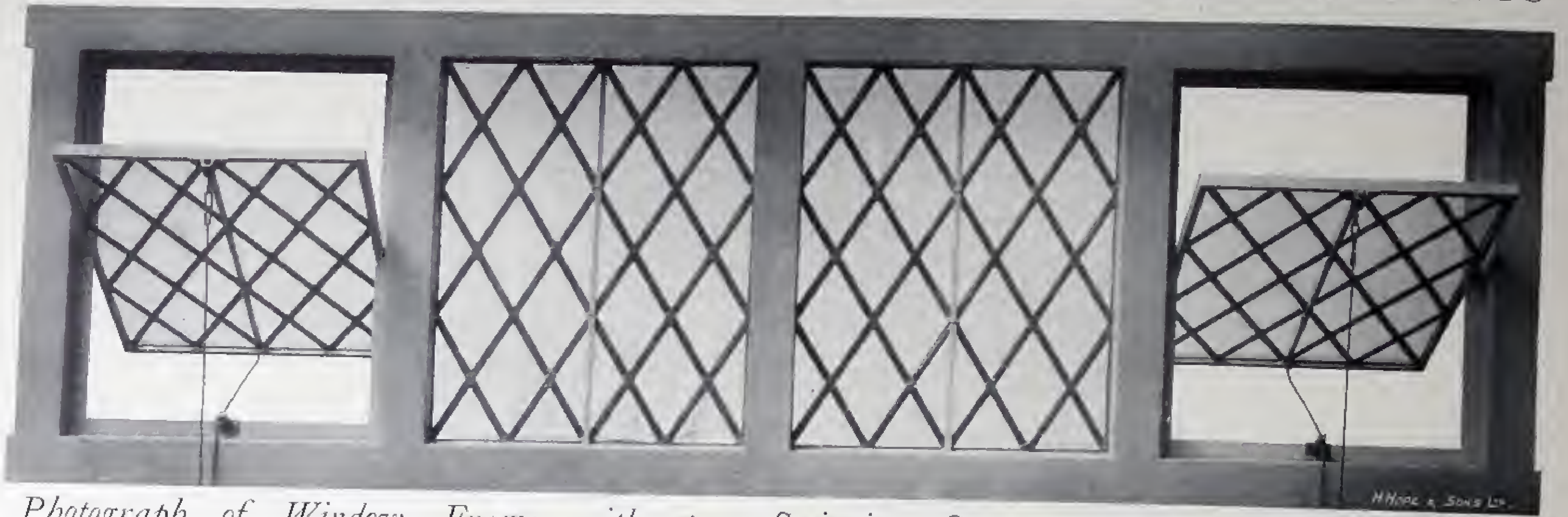
Casements divided into six panes with Rebated Bars, 5/- each extra.

Circular or Gothic Heads, 20/- each extra.

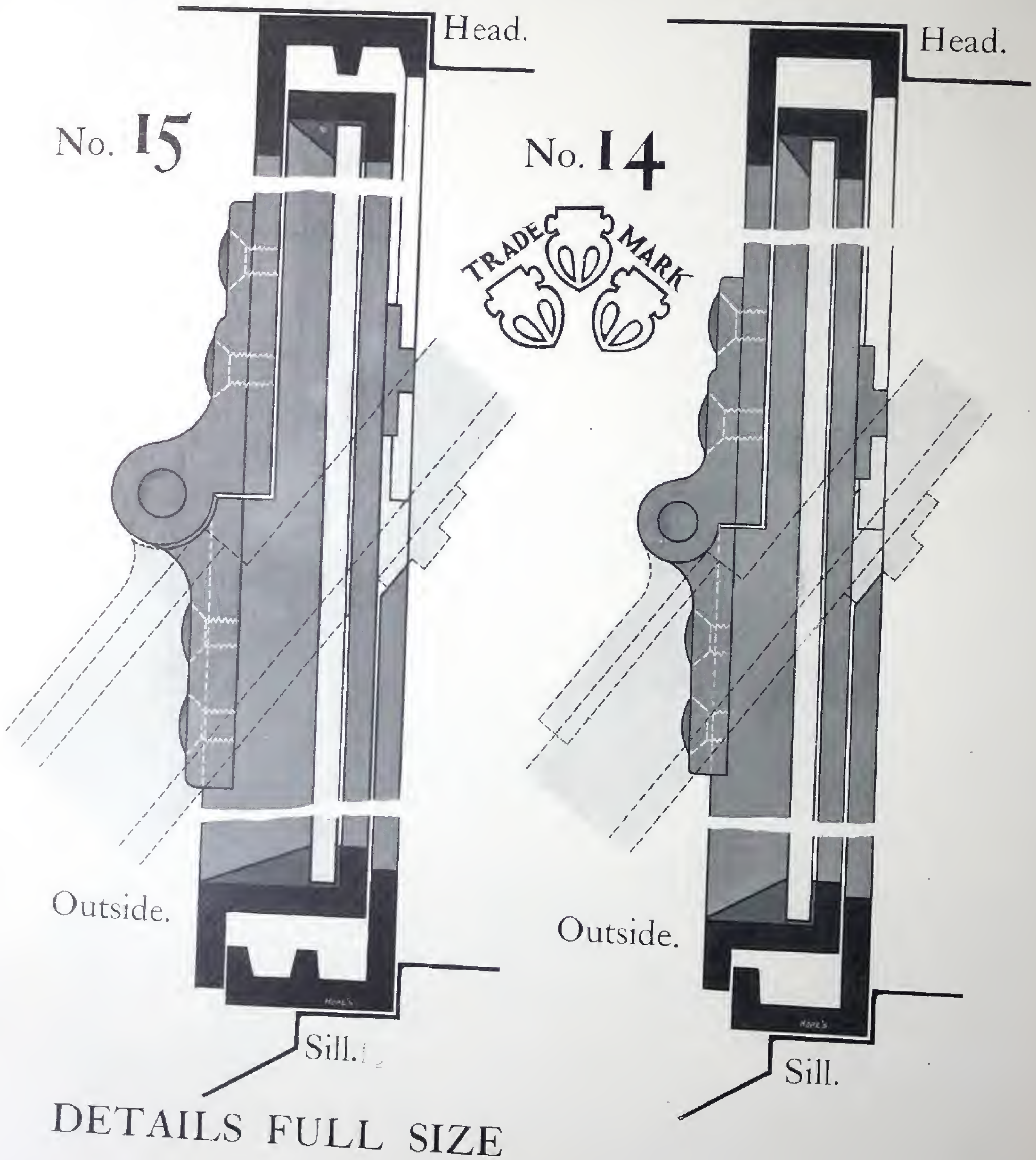


DETAILS OF SECTION No. 1
FULL SIZE

SWINGING CASEMENTS with Frames



*Photograph of Window Frame with two Swinging Casements, Section 14, Quality 1.
All glazed with leaded lights in diamond panes.*



HENRY HOPE & SONS LTD

SWINGING CASEMENTS with Frames

SPECIFICATION

Each section is of solid rolled English Mild Steel.

All joints cut on specially designed milling machines, ensuring a perfect fit.

The Corners of Inside and Outside Frames are rivetted and brazed. All brazed joints are sandblasted. This process removes the brazing flux and scale and leaves the surface of the steel in a perfect state to receive the paint.

The Hinges are Gun-metal, entirely machine-made, with phosphor bronze pins. The Fittings are of the best possible materials and workmanship.

PRICE LIST OF SECTION No. 15

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Spring Bolt and Cord Cup and Pulley.

QUALITY No. 2 Painted as last, and fitted with Cord Cup and Pulley.

QUALITY No. 1a the same fittings as Quality 1. The surfaces of the steel ground and finished perfectly smooth, Oiled and Painted two coats of White-lead, and one coat of Enamel.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.	Extra for Fillets for Grooves.
Under 2ft. 6in. : : :	Under 2ft.	29/-	27/-	32/-	2/6
2ft. 6in. and under 3ft. :	„	30/-	28/-	33/-	2/6
3ft. and under 3ft. 6in. :	„	31/6	29/6	34/6	3/-
3ft. 6in. and under 4ft. :	„	34/-	32/-	37/-	3/6

PRICE LIST OF SECTION No. 14

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Spring Bolt and Cord Cup and Pulley.

QUALITY No. 2 Painted as last, and fitted with Cord Cup and Pulley.

QUALITY No. 1a the same fittings as Quality 1. The surfaces of the steel ground and finished perfectly smooth, Oiled and Painted two coats of White-lead, and one coat of Enamel.

HEIGHT.	Width.	Quality 1.	Quality 2.	Quality 1a.	Extra for Fillets for Grooves.
Under 2ft. : : : :	Under 2ft.	26/-	24/-	29/-	2/6
2ft. and under 2ft. 6in. :	„	27/-	25/-	30/-	2/6
2ft. 6in. and under 3ft. :	„	28/6	26/6	31/6	3/-

Circular or Gothic Heads, 6/- each extra.

Rebated Cross Bars, 1/3 each extra. Saddle Bars for lead lights, 10d. each.

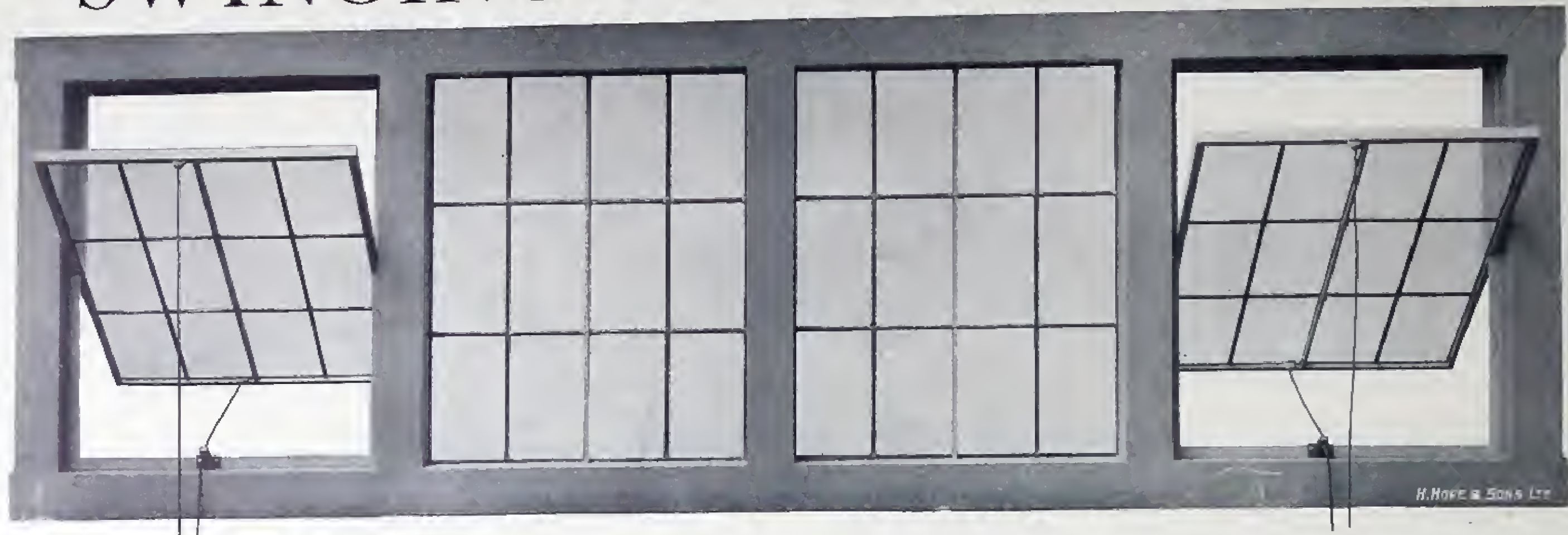
Casements divided into four panes with Rebated Bars, 3/- each extra.

Casements divided into six panes with Rebated Bars, 5/- each extra.

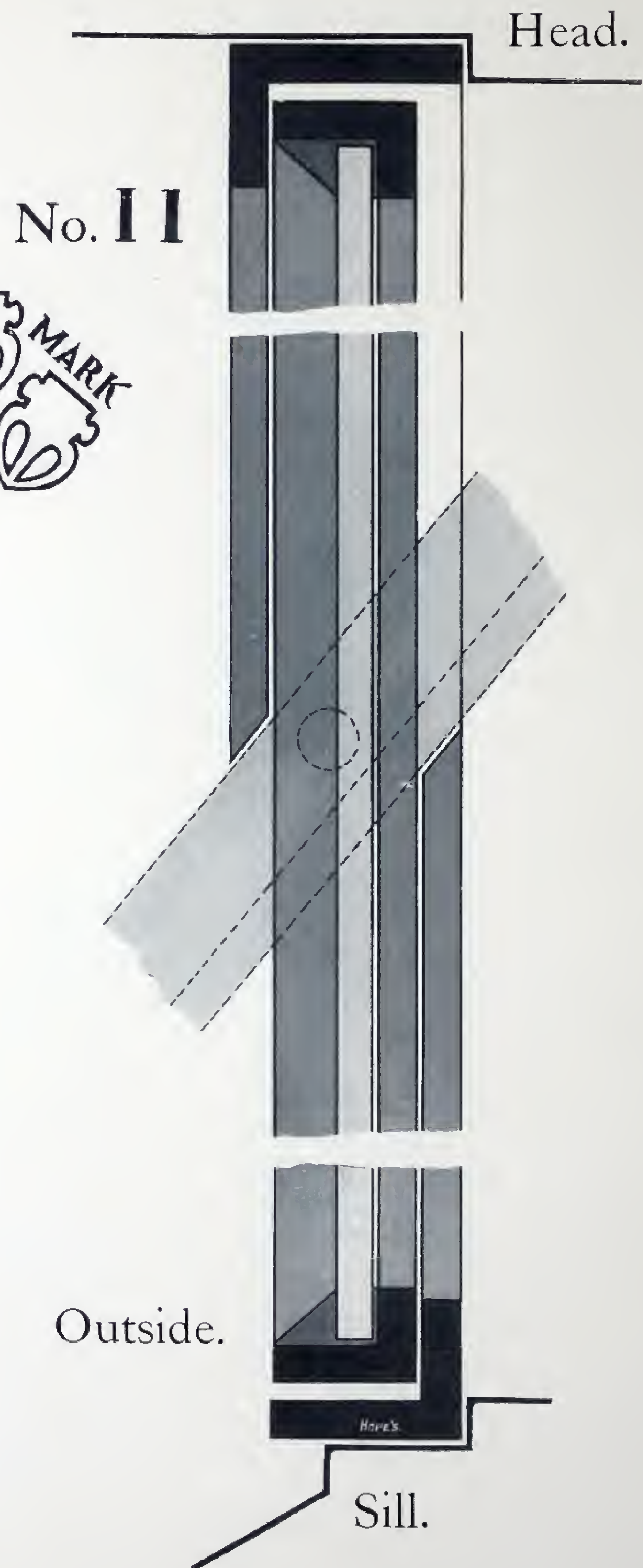
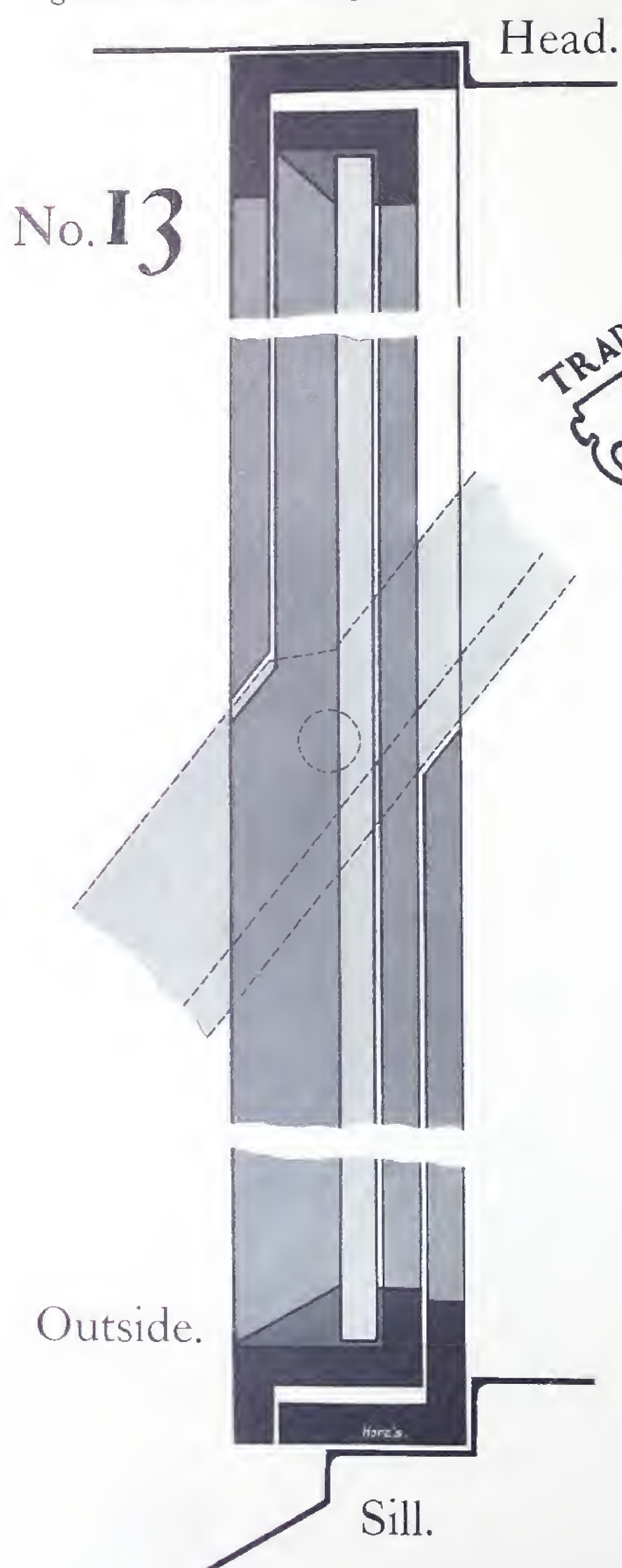
For prices and sections of Fixed Lights, see pages 36 and 37.

Prices are for Square Heads, and preparation for one sheet of glass.
IMPORTANT.—For instructions as to ordering see pages 58 & 59.

SWINGING CASEMENTS with Frames



Photograph of Window Frame with two Swinging Casements, Section 11, Quality 2. All glazed with leaded lights.



DETAILS FULL SIZE

HENRY HOPE & SONS LTD

SWINGING CASEMENTS with Frames

SPECIFICATION

Each section is of solid rolled English Mild Steel.
All joints cut on specially designed milling machines, ensuring a perfect fit.
The Corners of Inside and Outside Frames are rivetted and brazed. All brazed joints are sandblasted. This process removes the brazing flux and scale and leaves the surface of the steel in a perfect state to receive the paint.
The Fittings are of the best possible materials and workmanship.

PRICE LIST OF SECTION No. 13

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Spring Bolt and Cord Cup and Pulley.
QUALITY No. 2 Painted as last, and fitted with Cord Cup and Pulley.

HEIGHT.	Width.	Quality 1.	Quality 2.	Extra for Fillets for Grooves.
Under 2ft. : : : :	Under 2 feet.	18/6	16/6	2/6
2ft. and under 2ft. 6in. :	„	19/-	17/-	2/6
2ft. 6in. and under 3ft. :	„	20/-	18/-	2/6

PRICE LIST OF SECTION No. 11

QUALITY No. 1 Oiled and Painted two coats of White-lead, and fitted with Gun-metal Spring Bolt and Cord Cup and Pulley.
QUALITY No. 2 Painted as last, and fitted with Cord Cup and Pulley.

HEIGHT.	Width.	Quality 1.	Quality 2.	Extra for Fillets for Grooves.
Under 2ft. : : : :	Under 2 feet.	16/6	14/6	2/6
2ft. and under 2ft. 6in. :	„	17/-	15/-	2/6
2ft. 6in. and under 3ft. :	„	18/-	16/-	2/6

Circular or Gothic Heads, 6/- each.
Rebated Cross Bars, 1/3 each extra. Saddle Bars for lead lights, 10d. each.
Casements divided into four panes with Rebated Bars, 3/- each extra.
Casements divided into six panes with Rebated Bars, 5/- each extra.
For prices and sections of Fixed Lights, see pages 36 and 37.

Prices are for Square Heads, and preparation for one sheet of glass.
IMPORTANT.—For instructions as to ordering see pages 58 & 59.

SECTION No. 12 A As detail below.

QUALITY No. 2 fitted with Gun-metal Spring Bolt, to work with window stick, 20/- each.

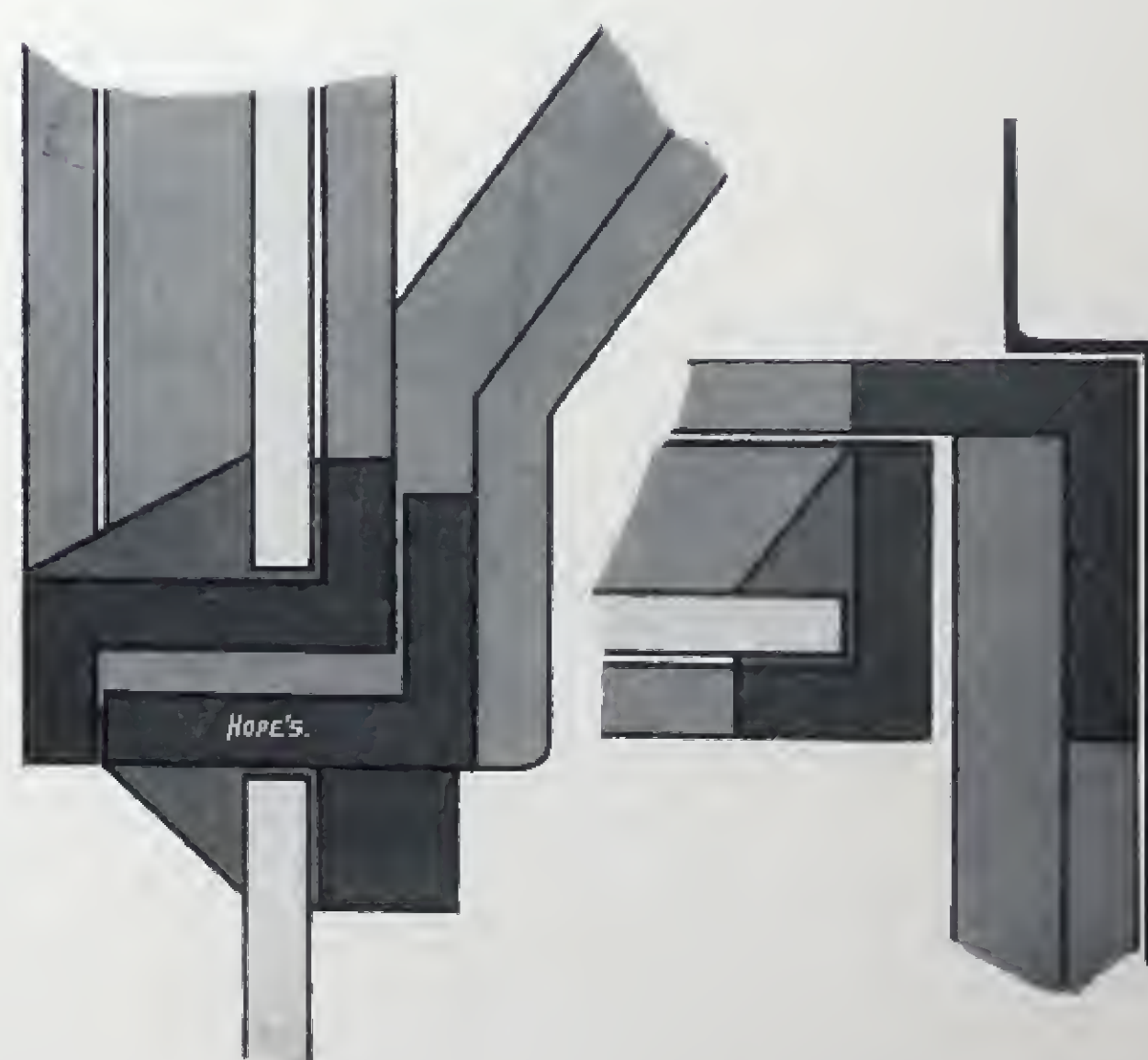
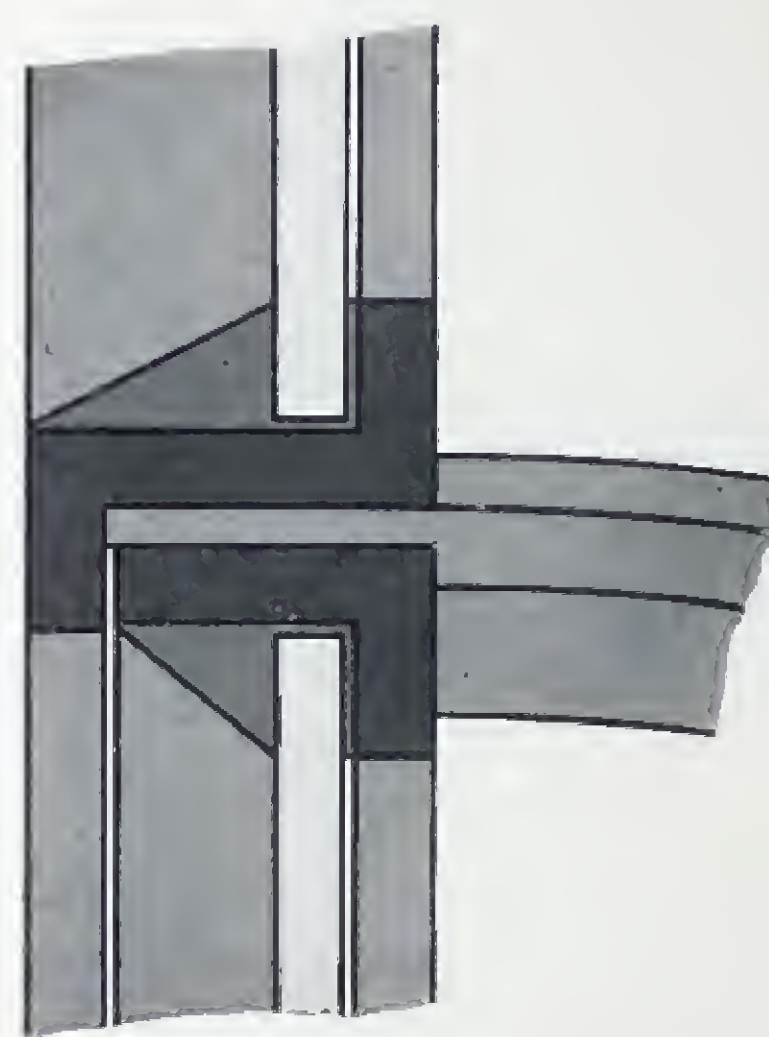
QUALITY No. 1 as above, up to 3ft. 6in. high \times 3ft. wide, 32/- each.

QUALITY No. 2 " " " " 30/- "

Saddle Bars for leaded lights, 10d. each extra. Fillets for grooves, 1/9 each extra.



DETAILS FULL SIZE



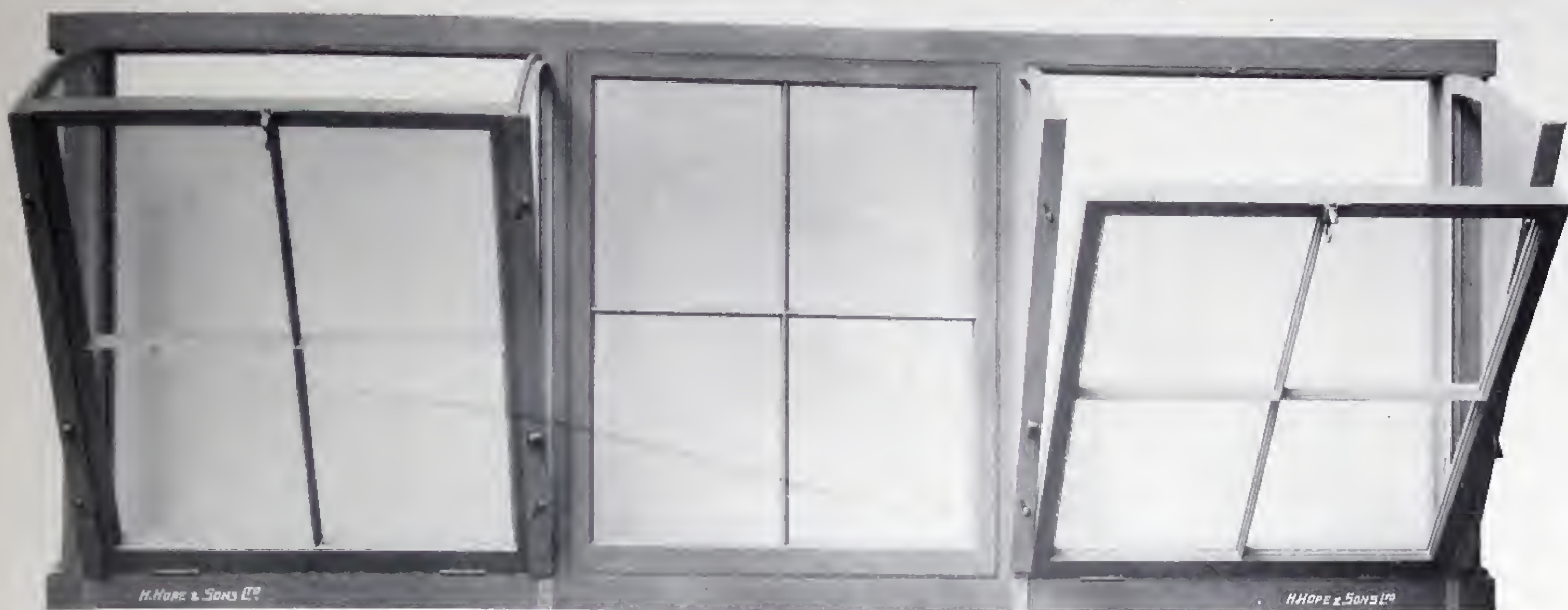
Photograph of Frame with one Hopper, Quality 1, glazed with leaded lights.

*Vertical Section
through Hopper.*

*Section through
Jamb and Cheek.*

N.A.P. PASSABLE HOPPER CHEEKS

Manufactured under Licence from the Patentees.



Photograph of Frame with two hopper casements, one resting on face-plate, the other "passed," or free for cleaning.

As will be seen from the photograph, these cheeks are designed to allow of fanlights being folded right back for cleaning. The face-plates, on which the fanlights rest when open, are provided with inclined slots and hung on pins attached to the cheeks. Both plates can be raised with a lateral motion by means of hooks provided for the purpose, so that the fanlight can pass. One only of each pair is provided with a simple catch to keep the face-plate in its raised position, so as to leave both hands free to hold the other plate back while opening the fanlight. On releasing the hooks both plates automatically return to their original position.

HEIGHT.	Prices per pair.	Fittings suitable for N.A.P. Cheeks, or Plain Cheeks.
2ft. and under : :	9/6	Gun-metal Ball Catches, 3/- per pair.
2ft. 6in. and under : :	10/6	Gun-metal Spring Catch and
3ft. and under : :	11/9	Striking Plate, 3/3 each.
3ft. 6in. and under : :	13/-	Gun-metal 3in. Butts, 2/- per pair.

If an iron bar is required to connect the tops of cheeks to ensure greater rigidity, 1/- each extra.

PLAIN HOPPER CHEEKS



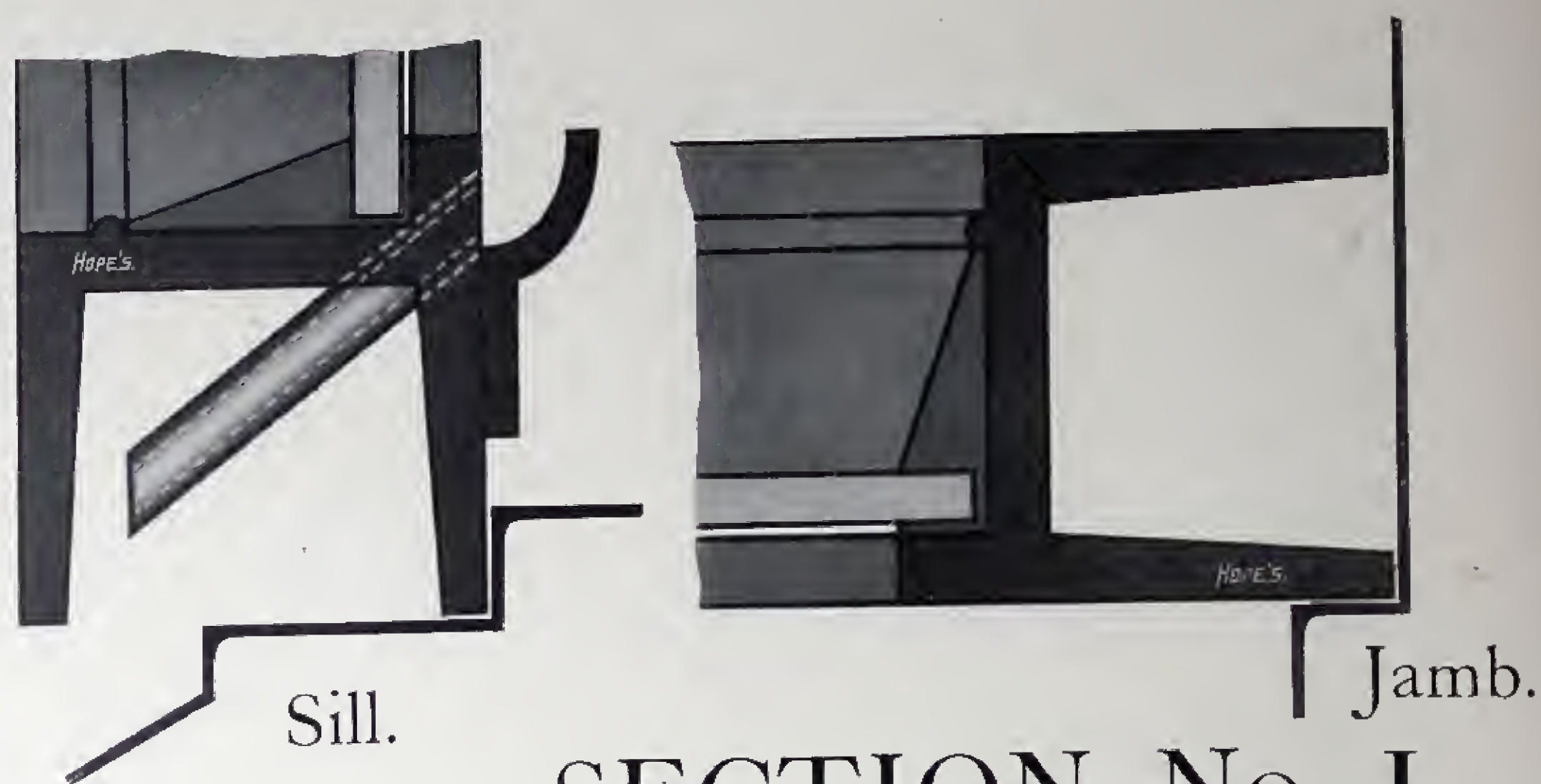
Similar to above but without patent N.A.P. passable face-plates.

Any size up to 3ft. high, 7/- per pair. Prices of spring catches, hinges, etc., same as above.

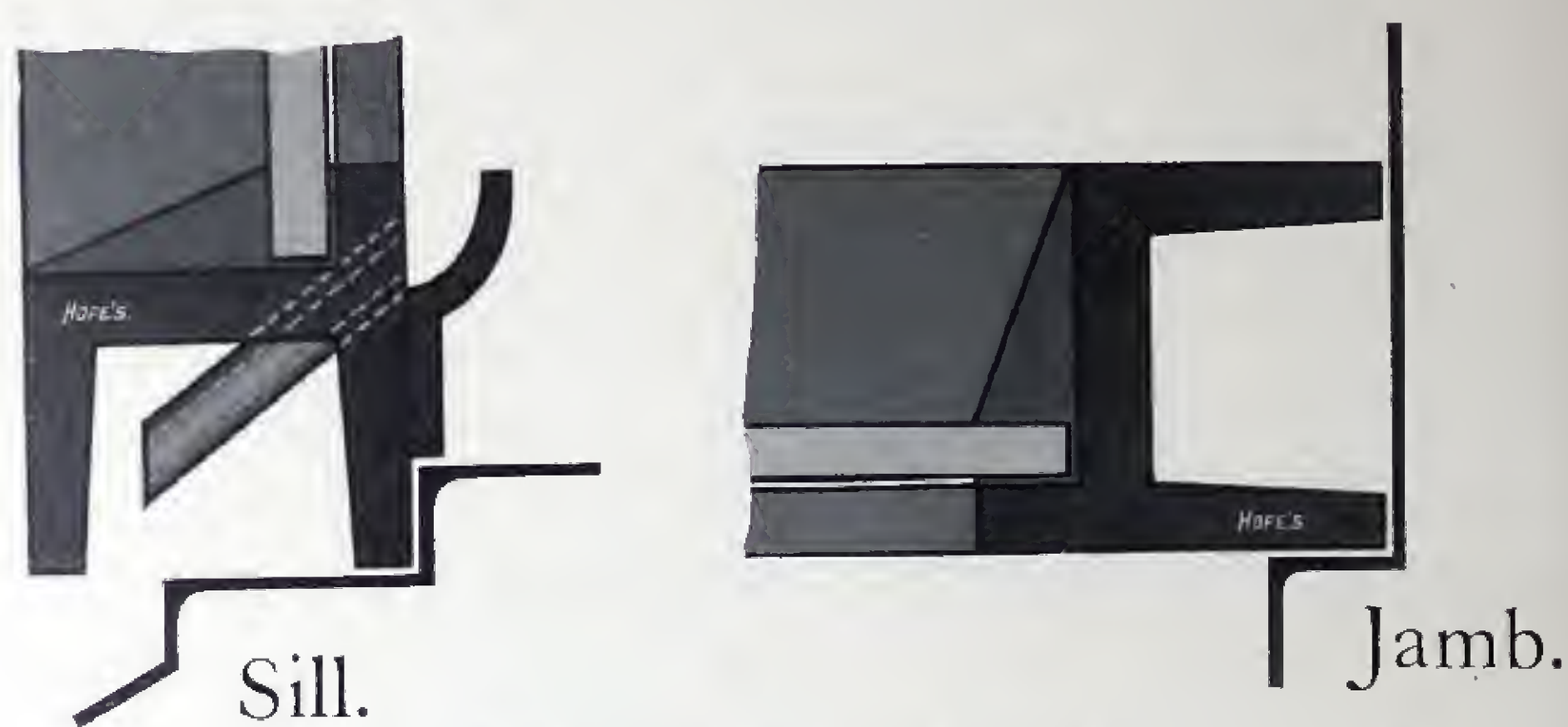
Photograph of Frame showing wood fanlight open and resting on face-plates of plain hopper cheeks.

FIXED LIGHTS

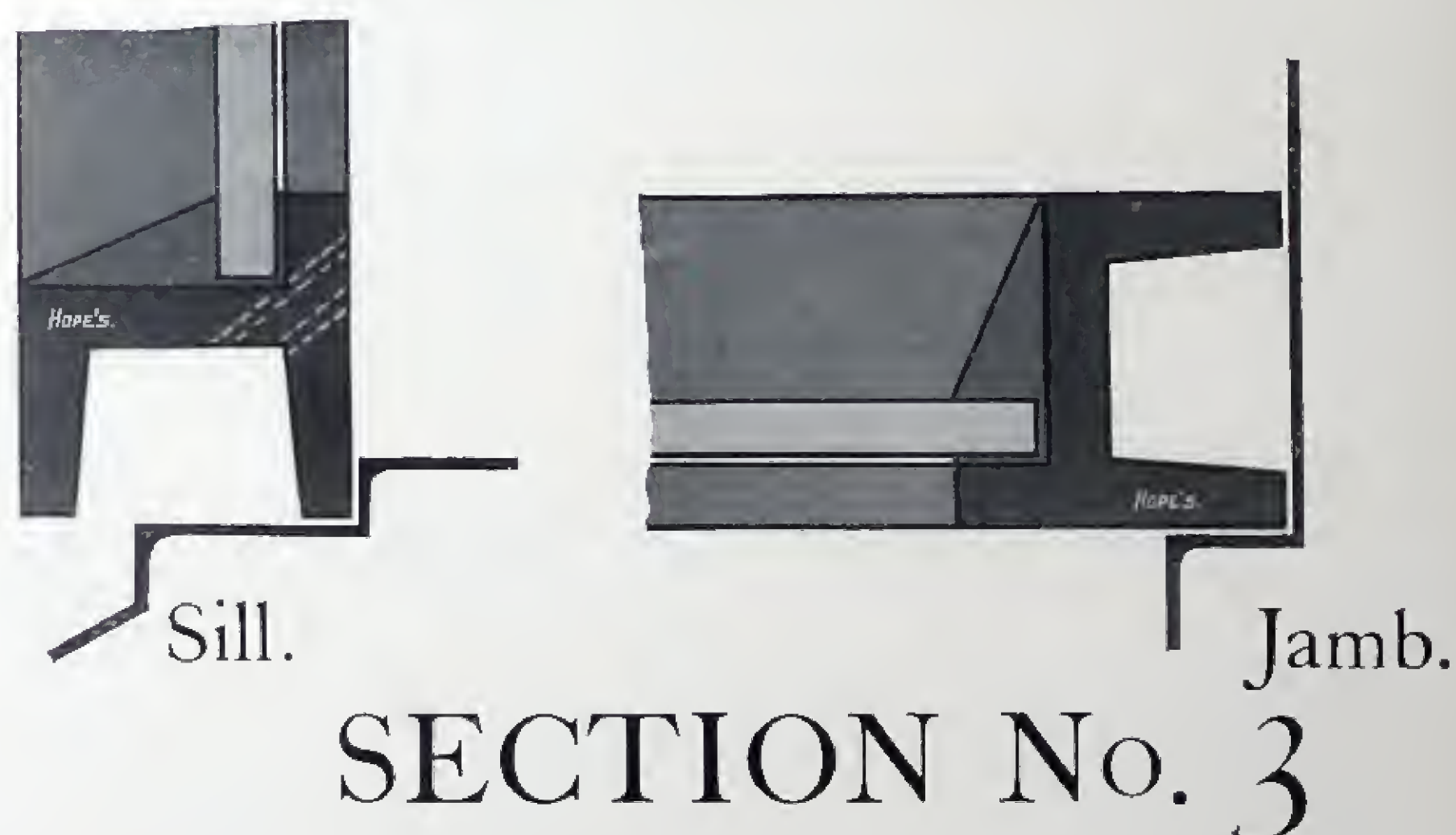
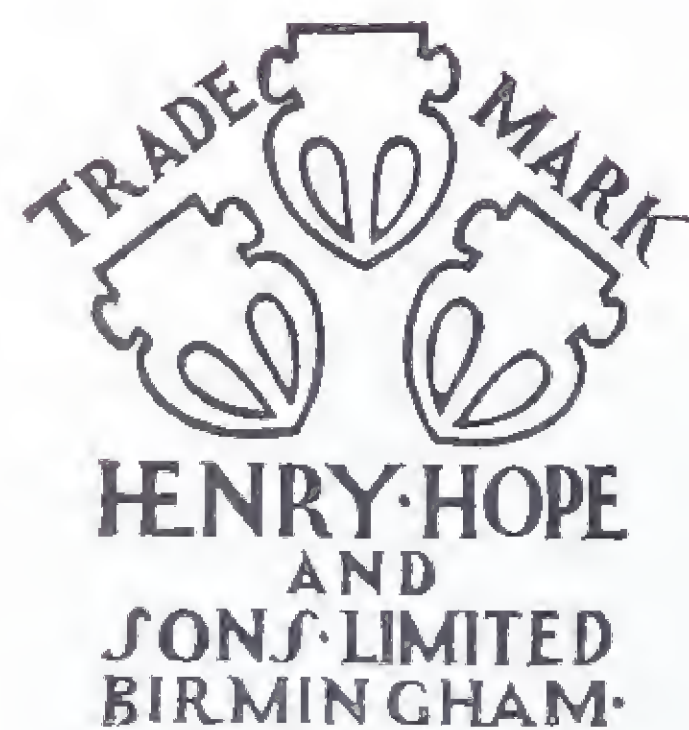
DETAILS
FULL SIZE.



SECTION No. 1



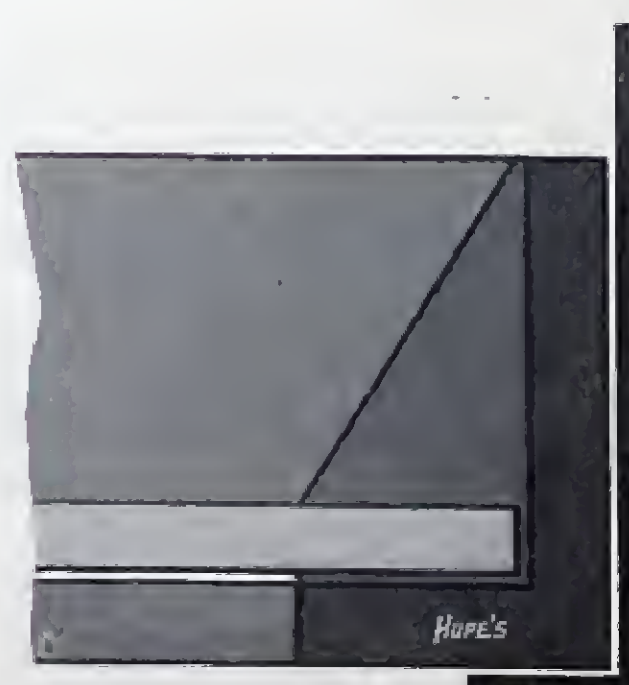
SECTION No. 2



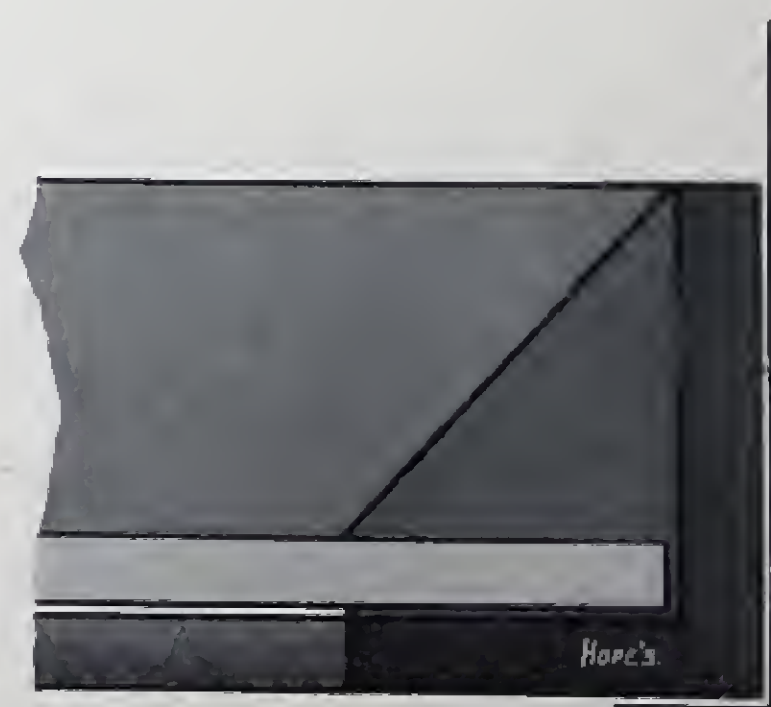
SECTION No. 3



1 in. x $\frac{3}{4}$ in.



1 $\frac{1}{4}$ in. x $\frac{3}{4}$ in.



1 $\frac{1}{4}$ in. x 1 in.

ANGLE SECTIONS

HENRY HOPE & SONS LTD

PRICE LIST OF FIXED LIGHTS

SECTIONS Nos. 1, 2 & 3

Made of Rolled Steel, as full size details shewn on the opposite page, shewing the same bulk of metal as the Opening Casements.

Sections 1 and 2 have Gun-metal Condensation Channels on the Bottom Rail.

HEIGHT.	Width.	Section 1.	Section 2.	Section 3.
Under 2ft. : : : :	Under 2ft.	15/-	11/-	7/6
2ft. and under 2ft. 6in. :	„	16/-	12/-	8/-
2ft. 6in. and under 3ft. :	„	17/-	13/-	8/6
3ft. and under 3ft. 6in. :	„	18/-	14/-	9/-
3ft. 6in. and under 4ft. :	„	20/-	16/-	10/-
4ft. and under 4ft. 6in. :	„	21/-	17/-	11/-
4ft. 6in. and under 5ft. :	„	22/-	18/-	12/-
5ft. and under 5ft. 6in. :	„	24/-	20/-	14/-
5ft. 6in. and under 6ft. :	„	26/-	22/-	16/-

Circular or Gothic Heads, Section 1, 6/- each. Sections 2 and 3, 4/- each.
Other extras, see foot of page

ANGLE SECTIONS

Made of Rolled Steel as full size details on the opposite page.

HEIGHT.	Width.	1 1/4 in. x 1 in.	1 1/4 x 3/4 in.	1 in. x 3/4 in.
Under 2ft. : : : :	Under 2ft.	5/6	5/-	4/9
2ft. and under 2ft. 6in. :	„	6/-	5/6	5/3
2ft. 6in. and under 3ft. :	„	6/6	6/-	5/9
3ft. and under 3ft. 6in. :	„	7/-	6/6	6/3
3ft. 6in. and under 4ft. :	„	7/6	7/-	6/9
4ft. and under 4ft. 6in. :	„	8/-	7/6	7/3
4ft. 6in. and under 5ft. :	„	9/-	8/6	8/-
5ft. and under 5ft. 6in. :	„	11/-	10/-	9/6
5ft. 6in. and under 6ft. :	„	13/-	12/-	11/6

Circular or Gothic Heads, 3/- each.

Rebated Cross Bars, 1/3 each extra. Saddle Bars for lead lights, 10d. each.

Casements divided into four panes with Rebated Bars, 3/- each extra.

Casements divided into six panes with Rebated Bars, 5/- each extra.

Prices are for Square Heads, and preparation for one sheet of glass.
IMPORTANT.—For instructions as to ordering see pages 58 & 59.



CASEMENT FITTINGS

We are presenting an entirely new range of fittings in the following pages, all of which have been designed and modelled with a view to their especial fitness in every detail for the purpose they have to serve.

We have endeavoured to work upon those lines which a long experience—in constant touch with practical requirements—has taught us must be followed in order to be successful; and while our designs are original, we have tried to avoid mere novelty, and have relied upon the perfection in detail of quite simple forms.

We make two qualities only—Gun-metal (called Quality 1) and Wrought-iron (called Quality 2). Each of these qualities is the best of its respective kind, and the same care is bestowed upon the mechanical parts of both.

In the manufacture of gun-metal fittings we have departed altogether from usual practice, inasmuch as we allow no manipulation of the form of the casting by hand-filing or “dressing.” We have produced, by the aid of first-class designers and modellers, a range of patterns of some excellence, and by employing great care in the sand moulding and casting we produce castings with a perfect “skin,” which are exact reproductions of the modeller’s work.

The necessary tooling of the working parts is performed upon machines of great precision, and all are made to gauge and subjected to severe inspection so as to be perfectly interchangeable.

Our wrought-iron fittings are all hand-forged (the working parts being made in dies so as to ensure uniformity), and precisely the same methods are used with the machining as for gun-metal.

The handle plates and jaws, which are brazed into the casements, are made of the best quality drop forgings of mild steel (not malleable-iron which is altogether inferior and always liable to breakage).

NOTE.—The Fittings as illustrated in the following pages are only supplied with our metal casements. For fittings for wood casements see special catalogue which will be forwarded upon application.

SPECIFICATION

HANDLES:—

Bored and faced both sides of boss and mounted on pin-plate which is turned to a plug fit, secured by our special device with cap and compressible washer which retains the handle at uniform pressure and prevents its getting loose with wear. A machine-cut quadrant with steel stop prevents the handle from moving beyond the one quarter of a circle necessary for opening and closing.

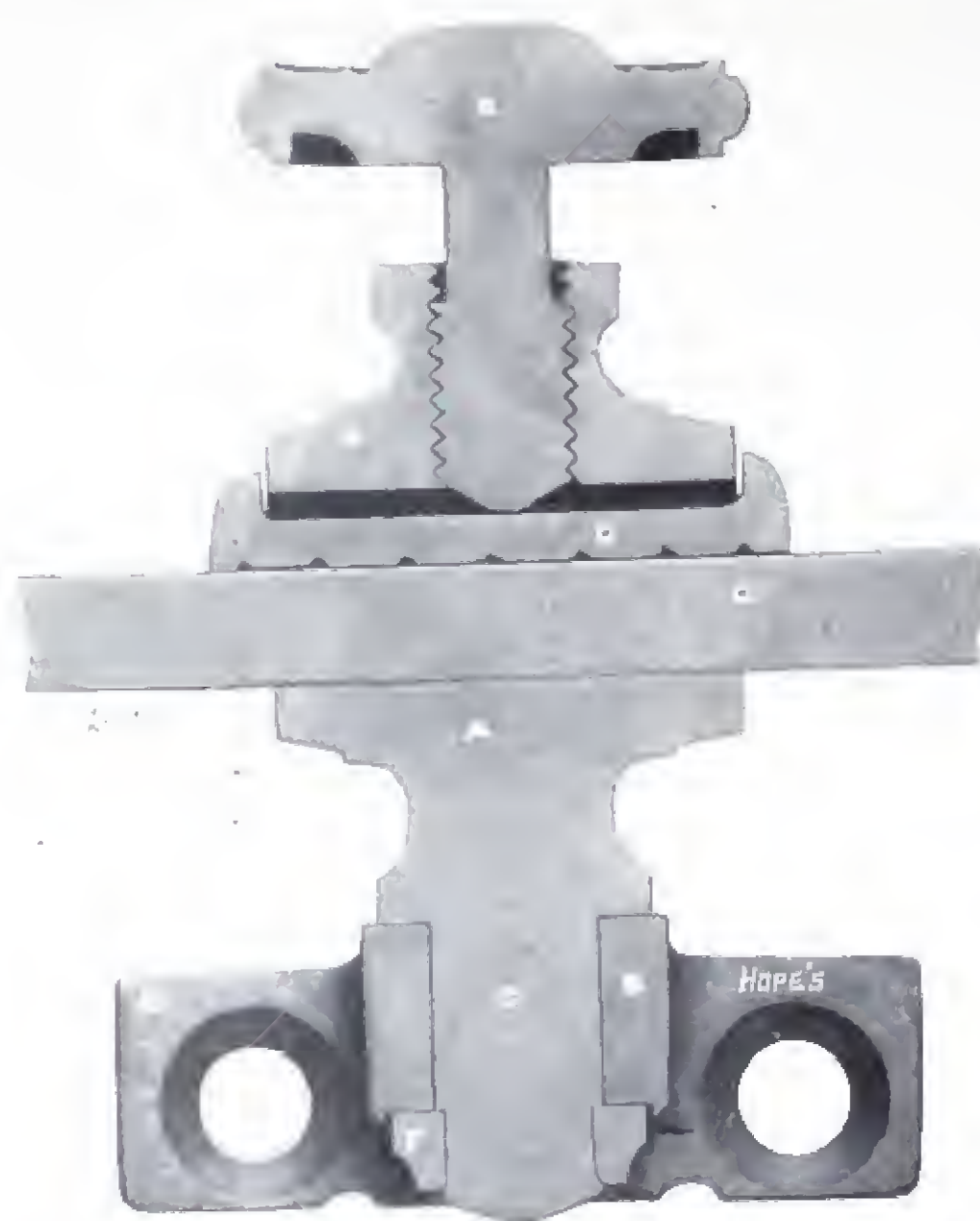


A, washer. B, steel stop. C, quadrant. (D, pin, & E, pin-plate, in one casting.) F, cap, G, boss. H, nose of handle.

SWIVEL STAYS, 221 :—

The box, screw, and bracket made of fine cast gun-metal, and the bar of hard-drawn bronze.

The pivot of the box is turned and the bracket bored to fit, the two being held together by a rivetted washer fitting against a shoulder on the pivot.



A, box. B, bracket. C, bar. D, gib. E, screw. F, washer. G, pivot.

The ample depth given to the pivot working in the bracket obviates the risk of loosening or bending.

The screw is carefully turned and threaded so as to give a true central pressure upon the gib in tightening up the stay.

PEG STAYS, 218 & 219 :—

Fine cast gun-metal or wrought-iron, the jaw and tongue machined to a perfect fit and all the holes drilled to the correct size for the peg which is turned and faced.

BOLTS, SPRINGS, LATCHES, PULLEYS:—

Are all made upon the same "engineering lines," and each will be found to be perfect in workmanship and material.

THE GUN-METAL is a mixture of copper, tin and zinc, to Admiralty specification, fine cast, brushed and bronzed to a red-brown tone, or mop-polished bright.

GUN-METAL HANDLES with Plates suitable for Casements opening Outwards.

 Inches.

Handle 497
Plate 533



Handle 258
Plate 557

Rebated Tee Section glazing bar.

Handle 20a
(Large)
Plate 213

Handle 495
Plate 208

Handle 541
Plate 567

The Plates shewn on this page are for outward opening casements only.

Any of the Handles shewn here, or on pages 42 and 43, will be supplied for all Sections in Quality 1, except Sections 3 and 3a and Section 8.

For these cheaper Sections, Handles 20a (large), 495, 541 and 496 are not included in the prices, but will be supplied at an extra charge of 1/6 each.

NOTE.

The Handles need not necessarily be used in conjunction with the plates shewn, but may be varied as desired.

The bar shewn is the jamb of Section 2.

WROUGHT-IRON HANDLES with Plates suitable for Casements opening Outwards.



Inches.

Handle 209
Plate 211

Handle 206
Plate 212

Handle 207
Plate 207

Handle 208
Plate 208

Handle 210
Plate 210

*The Bar shewn is the
jamb of Section 2.*



The Plates shewn on this page are supplied for casements opening outwards only.

Any of these Handles except 210 may be used for Quality 2 on all Sections.

NOTE.—With the exception of 210 the Handles need not necessarily be used in conjunction with the Plates shewn, but may be varied as desired.

Handle 210 is only supplied with Plate 210 which must be fitted with a Saddle Bar across the casement. An extra charge is made for this pattern, including the bar, of 1/6 each.

Saddle Bar for lead glazing.

PLAIN HANDLES with Plates suitable for Casements opening Outwards.

 Inches.

Handle 497
Plate 212

Handle 576
Plate 533

Handle 577
Plate 213

Handle 575
Plate 208

*The bar shewn is the
jamb of Section 2.*



The Plates shewn on this page are for outward opening casements only.

Handles 497, 575 and 577 are supplied, if required, in Malleable Iron, for any Sections, Quality 2, and in Gun-metal for any Sections, Quality 1.

Handle 576 is made in MILD STEEL STAMPINGS ONLY, and has been specially designed as suitable for casements in warehouse windows, etc., where great strength and neatness are desirable.

NOTE.

The Handles need not necessarily be used in conjunction with the Plates shewn, but may be varied as desired.

GUN-METAL HANDLES with Plates suitable for Casements opening Inwards.

 Inches.

Handle 496
Plate 521



Handle 20a
(Small)
Plate 523



Handle 498
Plate 522



Handle 203
Plate 555



Handle 259
Plate 524



*The bar shewn is
the jamb of Section
2a.*



The Plates shewn on this page are specially designed for inward opening casements, so as to give the correct projection from the nose of the Handle to the centre of the boss.

All of these Handles, or those shewn on pages 40 and 42, are included in the prices for Quality 1, Sections 1a and 2a.

For Section 3a, Handles No. 496, 20a (large), 495 and 541 are not supplied, except at an extra charge of 1/6 each.

NOTE.—The Handles need not necessarily be used on the Plates shewn, any Handle will be supplied on any of these Plates as desired. It is essential that these Plates should be used for inward opening casements; those shewn on pages 40, 41, and 42 are for outward opening casements only.

GUN-METAL STAYS for Metal Casements opening Outwards.



No. 218
Peg Stay.



No. 219
Peg Stay.



No. 221
Screw and
Swivel Stay.



No. 220
For Inwards
only.



Stays No. 218, 219 and 221 may be used for Quality 1, Sections 1, 2 and 9. For Quality 1, Section 3, Stay No. 218 only is supplied except at an extra cost of 1/- each. No. 220 is supplied for Quality 1, Sections 1a and 2a, and in a lighter pattern for Section 3a.

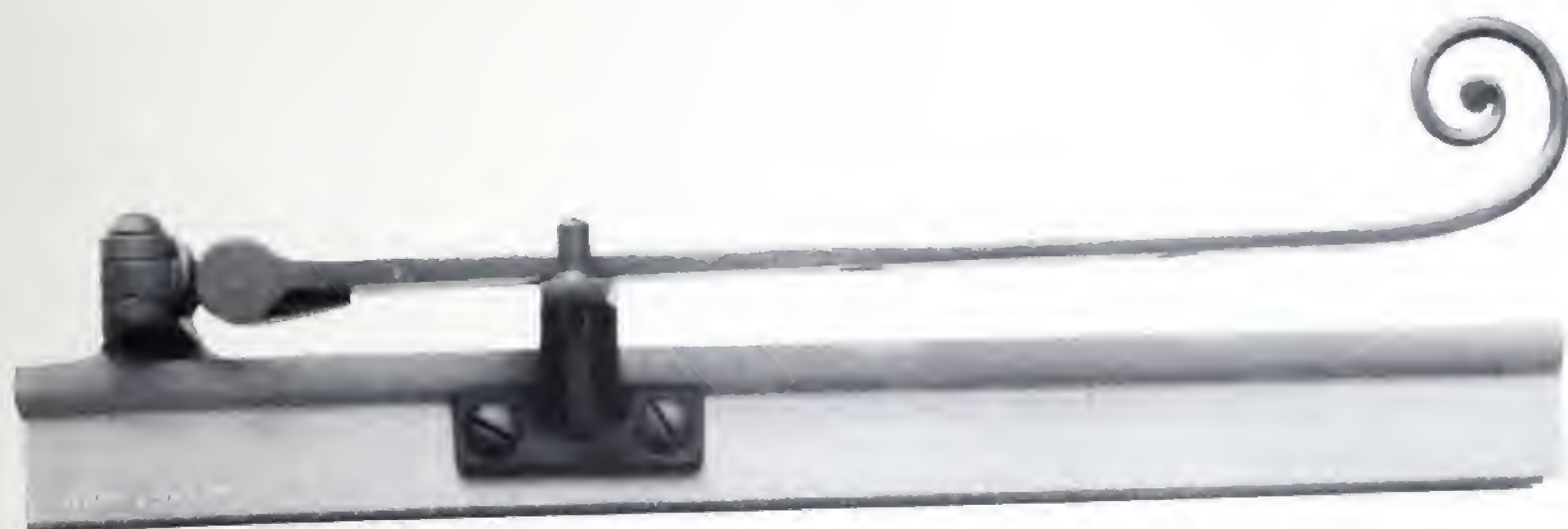
No. 218 is shewn attached to Section 3, Nos. 219 and 221 to Section 2, and No. 220 to Section 3a.



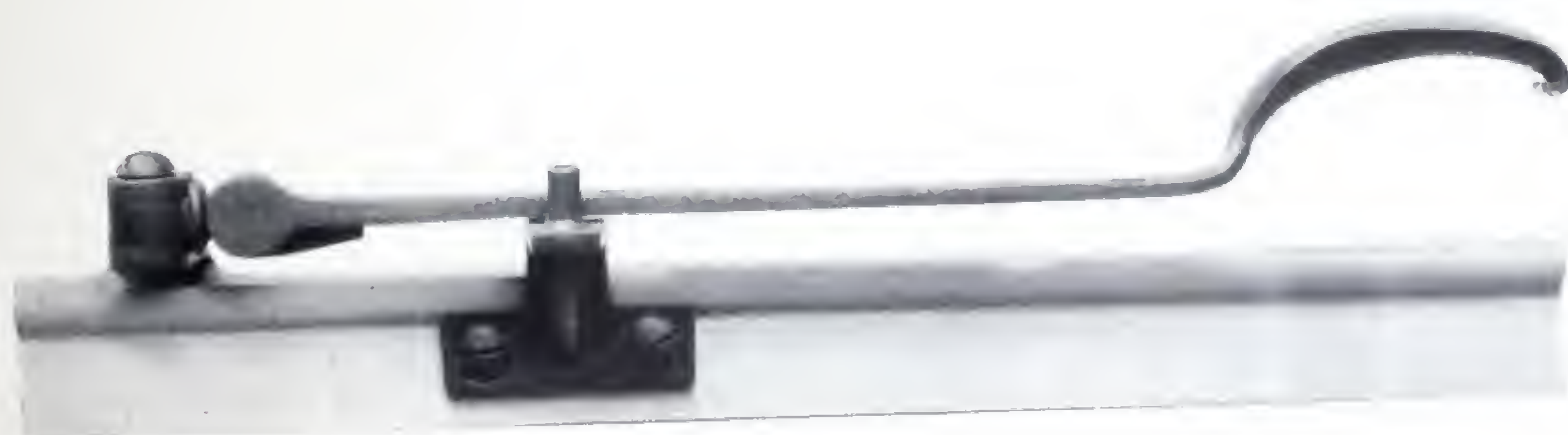
WROUGHT-IRON STAYS for Metal Casements opening Outwards.



No. 218



No. 219



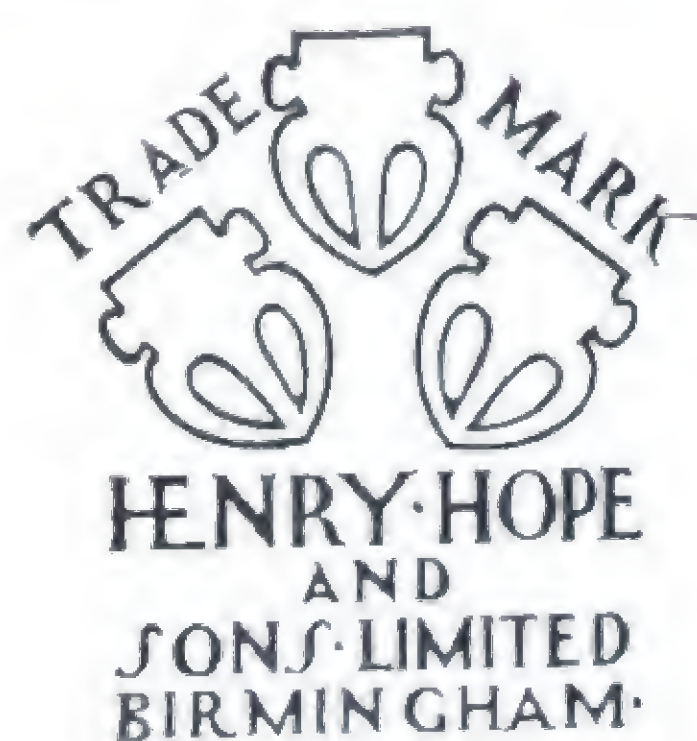
No. 384



No. 385



Any of the above Stays may be selected for Quality 2, Sections 1, 2 and 9. For Quality 2, Section 3, No. 218 only is supplied except at an extra cost of 6d. each. All Stays of this type are provided with our registered No. 410530 Combined Pin and Rest. *No. 218 is shewn attached to Section 3, the remainder attached to Section 2.*



GUN-METAL BOLTS

————— Inches.



No. 564



No. 561



No. 563



No. 562



No. 560

Bolts Nos. 562, 563 and 564, are used for folding casements under 4ft.6 high. The cases are each cast in one piece, and the bolts are hard drawn Bronze-metal. Espagnolette Bolt, No. 560, is fitted to all folding casements over 4ft.6 high; a turn of the ring handle shoots the bolt at top and bottom. The case and guides are of cast Gun-metal, and the rods are hard-drawn Bronze. The above are included in the prices of casements where they are specified. No. 561 is a Gun-metal Cord Strainer; the cord wheel may be raised or lowered by adjusting the screw knob. This is not included in the prices of casements, but will be supplied at 2/- each.

TRADE MARK
HENRY HOPE
AND
SONS LIMITED
BIRMINGHAM.

DOUBLE & TREBLE GRIP BOLTS

 Inches.



No. 1

No. 2

No. 3

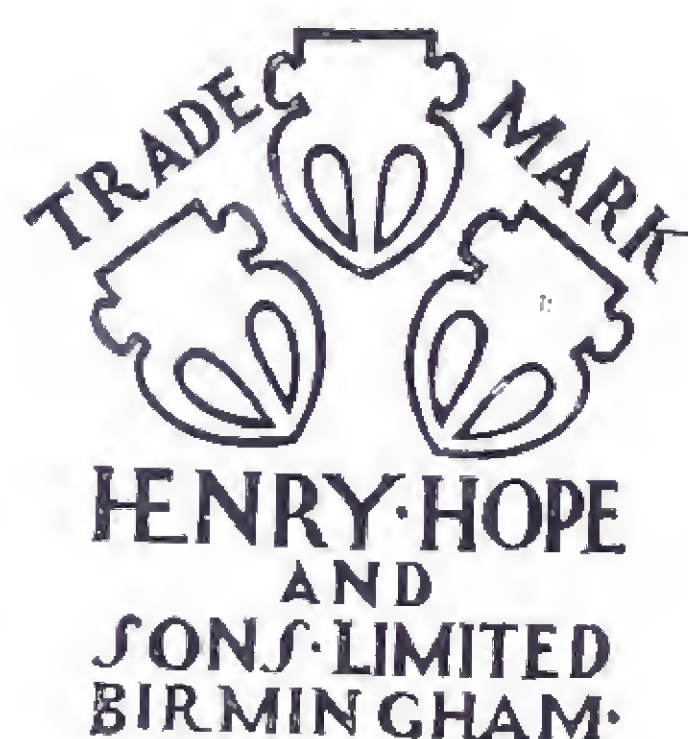
No. 1 is our Double Grip Sliding Bolt, as applied to casements (with frames) opening outwards, over 4ft.6 high, for Sections 1 and 2, and 1c and 2c, the handle is usually placed about 15in. above the sill. The photograph shews the bolt fixed to Section 2.

No. 2 is our Treble Grip Bolt, as applied to casements (with frames) opening outwards, as enumerated above. The treble grip is only applied to exceptionally large casements.

No. 3 is our Double Grip Sliding Bolt, as applied to casements (with frames) of Sections 1a and 2a, opening INWARDS, over 4ft.6 high. The photograph shews the bolt fixed to Section 2a.

GENERAL NOTE.

The Bolts are made throughout with Gun-metal slides, guides and hooks, and hard Bronze rods, and are included in the prices of casements where they are specified.



SPRING LATCHES & QUADRANTS



The "Corsham" Latch & Quadrant. Inside.



The "Broadway" Latch & Quadrant. Inside.



Quadrant from outside.



Quadrant from outside.

SPECIFICATION

The Latches and Quadrants illustrated above are entirely hand-forged, and are so designed as to be self-locking, *i.e.*, they can be "slammed," and require no manipulation of the latch when being closed.

The "Corsham" Quadrant has a top spring, upon which the casement takes its bearing. The "Broadway" Quadrant is in itself a spring, the casement bearing upon it in the same way. The tops of the springs are in all cases carefully tinned and a piece of gun-metal is brazed in the bottom of the casement at the point where it bears on the spring, thus obviating any tendency to rust at the points of contact.

Both Latches are extremely simple and are strongly recommended for those who prefer hand-forged fittings of this type. Variations can be made to suit customers' requirements and sample forgings submitted for approval. Either of the above patterns can be applied to any Section for an additional charge of 12/- each to the price of Quality 1.

HENRY HOPE & SONS LTD WROTH STEEL WINDOWS

Since the issue of our last Catalogue, we have made many improvements in this Department, both in design and manufacture. We have added several new Sections, so that we can now supply sashes in $1\frac{1}{2}$ in., $1\frac{5}{8}$ in., or 2in., to glaze inside or outside, and with flanges on the outer bars on either edge, to suit any form of brick or stone reveals.

While we do not allow ourselves to consider any of our products so perfect as not to need any more care or attention directed to further perfection; we invite comparison of our present windows with any others that are manufactured.

We have raised the manufacture of Steel Windows from the slipshod methods of "Art Metal" Workers to the precise uniformity of a properly equipped engineering works, with the result that Hope's Steel Windows are now generally recognised as the standard of perfection in the trade.

All joints are cut on milling machines, and our devices for accurate division render any inequality in the sizes of the squares impossible.

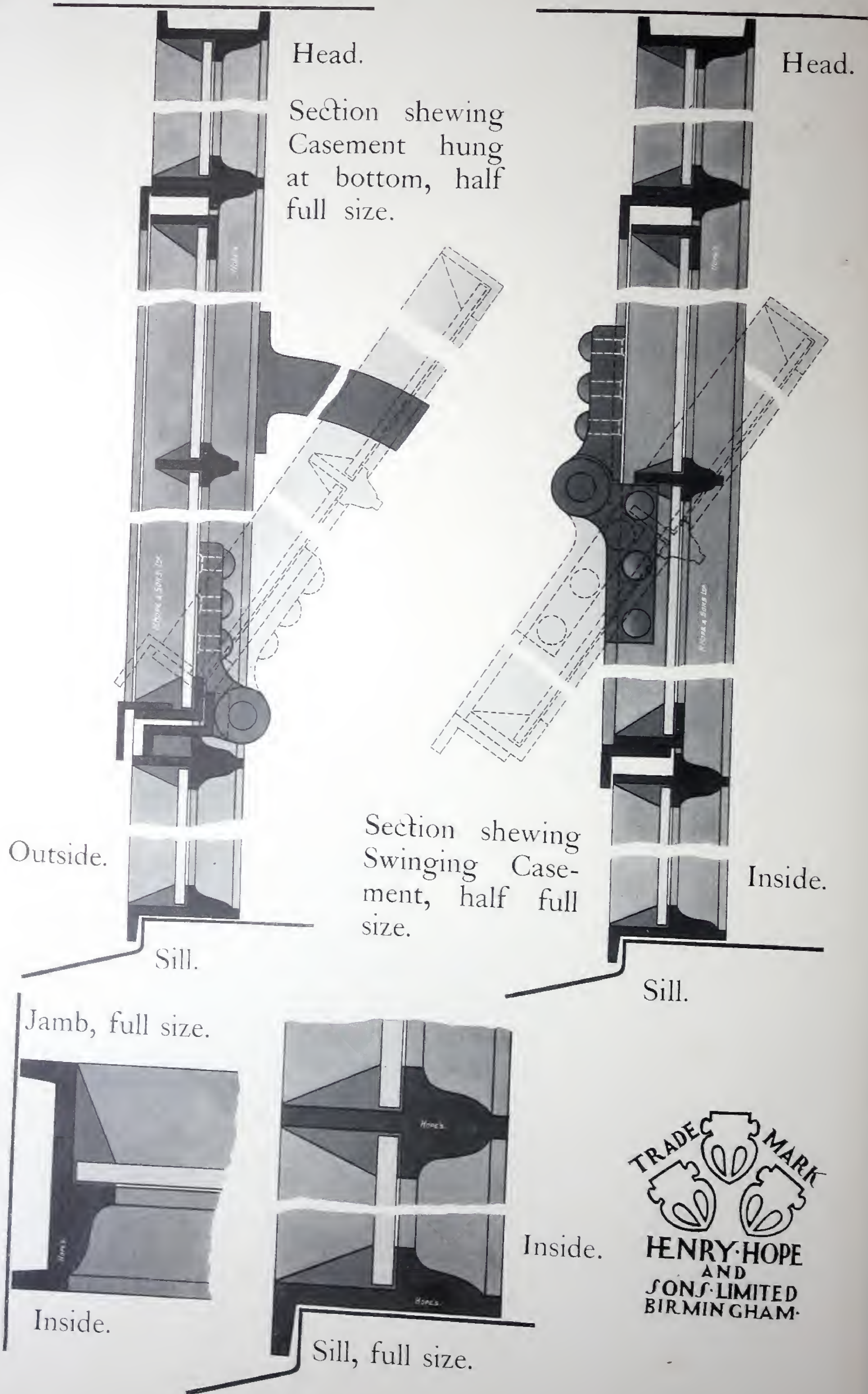
By our method of construction we preserve the frames at their full strength, all the ends of the bars being scribed and tenoned and rivetted into mortise holes in the frames.

Ventilating Casements can be provided in a variety of forms, and in all cases the hinges and fittings are of first-class quality, while the Sections employed are specially designed for the exclusion of weather, and the general fit and finish are of a high degree of excellence.

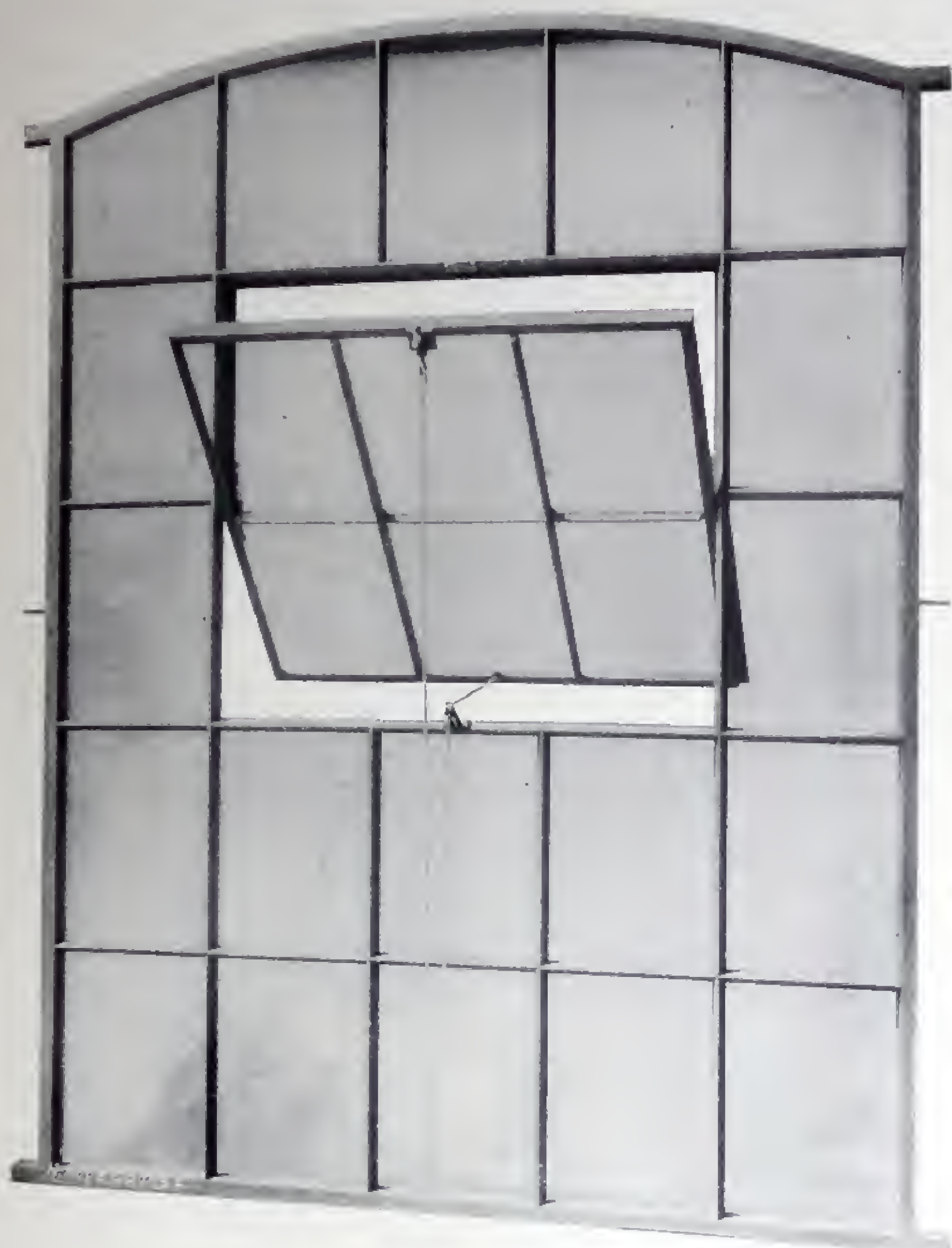
We keep a large stock of all our Sections, and we have an unrivalled plant for the rapid production of windows of all kinds, so that we are always able to give quick delivery of any numbers required. The great variety of forms which we have standardised enable us to fulfil the requirements for any type of modern building, without any delay for the preparation of patterns.

N.B.—Samples, either of joints or complete windows, will always be forwarded upon request, and we wish it to be clearly understood that our samples are fair specimens of the bulk of our work.

2^{IN} SECTION STEEL WINDOWS



HOPE'S WRO^T STEEL WINDOWS



SPECIFICATION

All the bars are of solid rolled English mild steel.

Horns are provided on the corners for building into brickwork, and intermediate lugs on the sides.

All joints are cut on milling machines, and put together without any manipulation by hand labour other than rivetting up.

The bars are painted before rivetting, and the finished windows painted two coats before delivery.

Photograph of Window, about 8ft. x 6ft., giving panes about 2ft. area; shewing Casement hung on Pivots, and fitted with spring catch, with cord eyes and pulley.

The 2 inch Sections as shewn on the opposite page are recommended for windows up to about 9ft. high by 7ft. wide. The double-ribbed outer bar has been specially designed to give extra strength to the frames, and at the same time to make a perfect joint with the brickwork, without the use of rebated or grooved bricks. The joint is easily made by flushing the mortar or cement between the brick and the window as each course is laid. The single flange Section is recommended for the bottom rail.

Details on opposite page shew the rebates for glazing on the **OUTSIDE**, but sashes can be made of the same Sections to glaze from **INSIDE** if preferred.

Opening Casements are fitted in such a manner as to give the necessary extra strength to the frames, no portion of the mouldings being cut away.

The pivots and plates on which they are hung are made of steel, lathe-turned and bored, and all spring bolts, pulleys, etc., are made of the best Gun-metal.

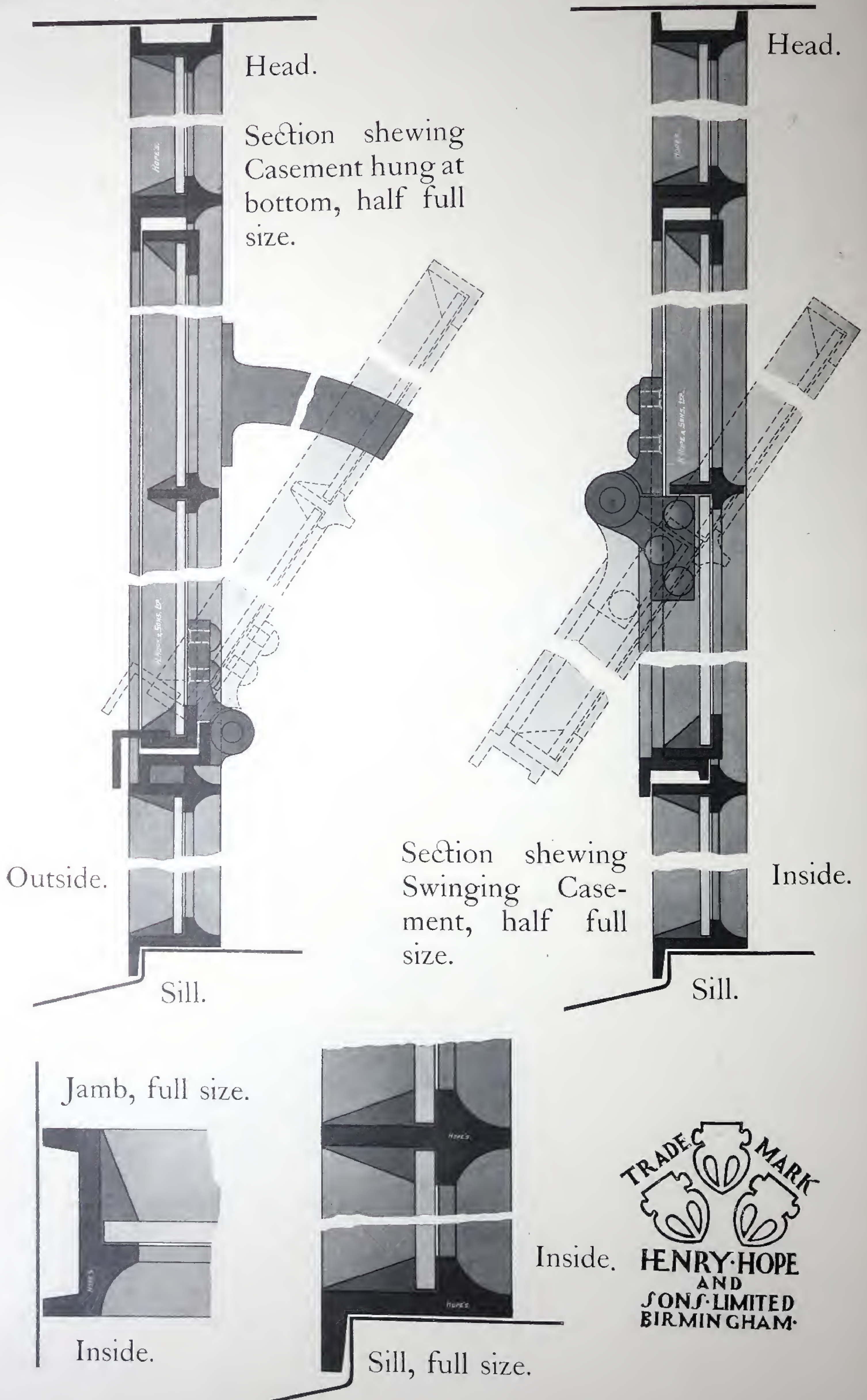
APPROXIMATE PRICES.

Area of sash about 54 feet super.	Panes about 3 feet area	10d. per foot.	Extra for Casements hung at bottom and fitted with Spring Catch and Side Stops 15/- each.	Extra for Swinging Casements fitted with Spring Catches and Eyes and Pulley 16/- each.	Extra for Hopper Cheeks to Casements hung at bottom 7/- pair.
	Panes about 2½ feet area	1/- per foot.			
	Panes about 2 feet area	1/1 per foot.			

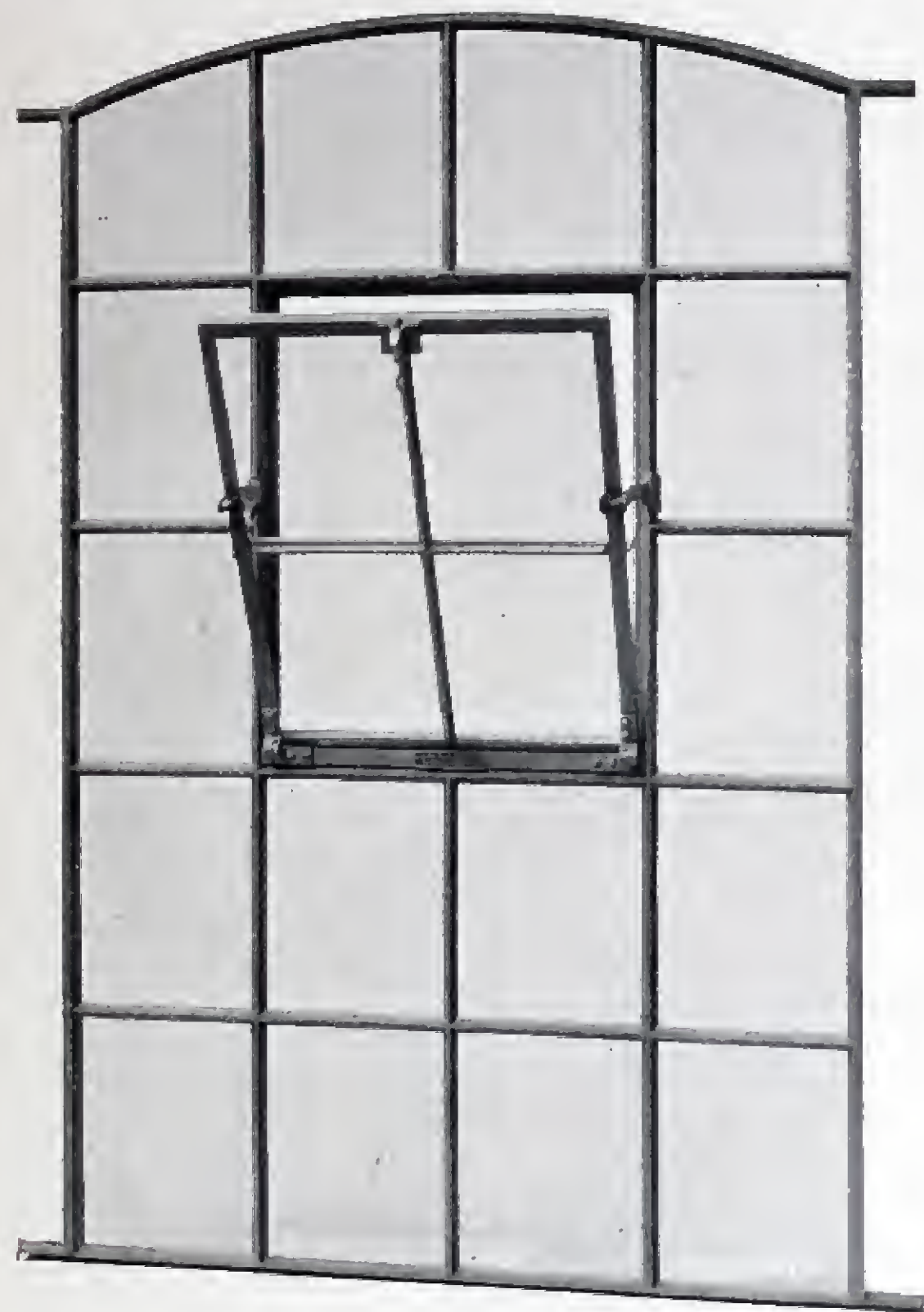
Special quotations will always be given upon receipt of specifications.

NOTE.—For details of other 2 inch Sections, with flanges suitable for glazing **INSIDE**, see page 54.

1⁵/₈ IN SECTION STEEL WINDOWS

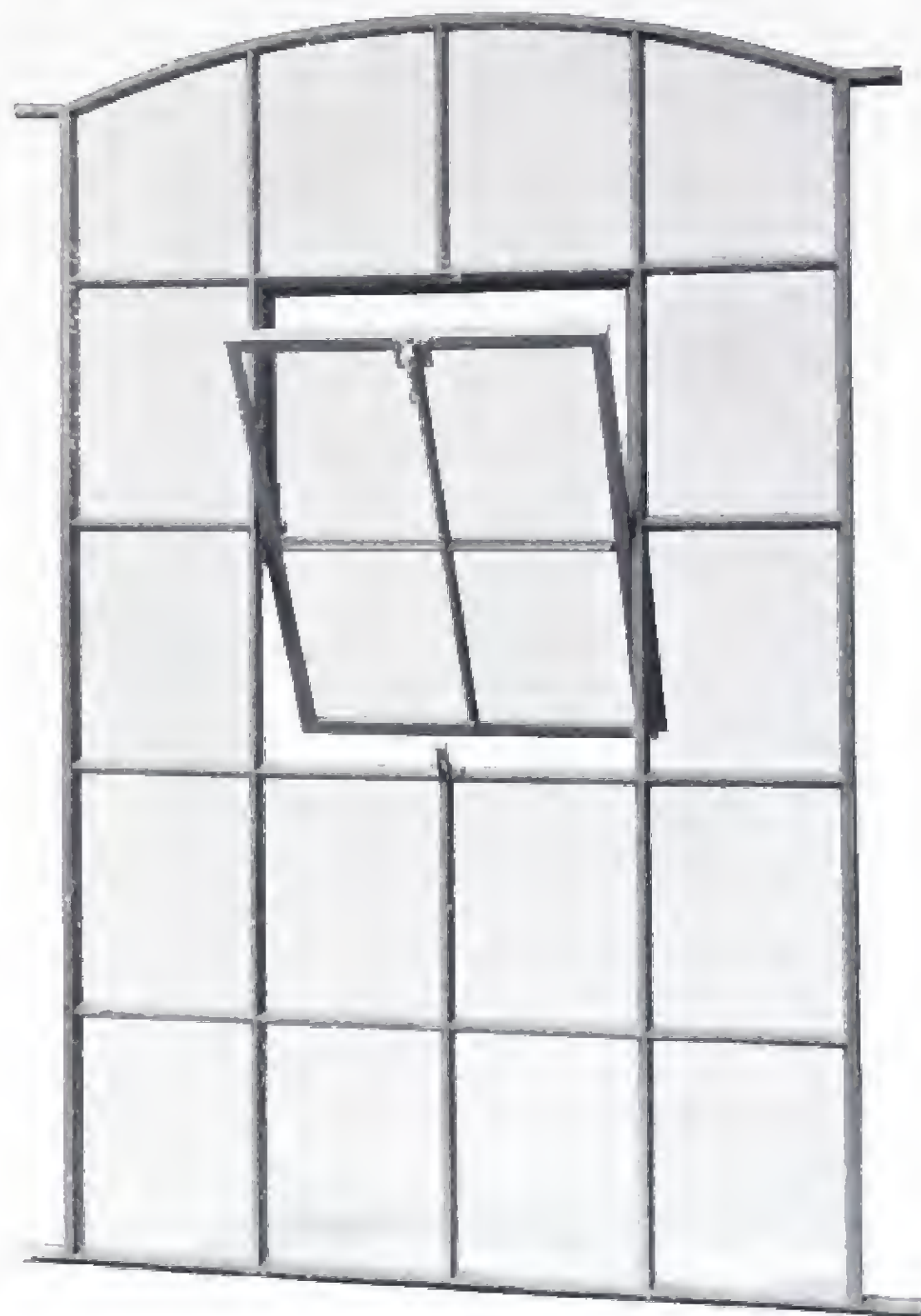


HOPE'S WRO^T STEEL SASHES



Sash with Casement hung at bottom, & fitted with spring catch & side stops.

Photographs
of Sashes
about
7.0. x 4.0.
giving panes
about 1½ feet
area.



Sash with Casement hung on Pivots, & fitted with spring catch and cord eyes and pulley.

SPECIFICATION.—Same as on page 51.

The 1⁵/₈ inch Sections as shewn on the opposite page are recommended for windows up to 7ft. 6in. high by 5ft. wide. The double-ribbed outer bar has been specially designed to give extra strength to the frames, and at the same time to make a perfect joint with the brickwork, without the use of rebated or grooved bricks. The joint is easily made by flushing mortar or cement between the brick and the window as each course is laid.

The single flange Section is recommended for the bottom rail.

Details on opposite page shew the rebates for glazing on the OUTSIDE, but sashes can be made of the same Sections to glaze from INSIDE if preferred.

Opening Casements are fitted in such a manner as to give the necessary extra strength to the frames, no portion of the mouldings being cut away.

The pivots and plates on which they are hung are made of steel, lathe-turned and bored, and all spring bolts, pulleys, etc., are made of the best Gun-metal.

APPROXIMATE PRICES.

Area of sash about 35 feet super.	Panes about 2½ feet area	6d. per foot.	Extra for Casements hung at bottom and fitted with Spring Catch and Side Stops 13/6 each.	Extra for Swinging Casements fitted with Spring Catches and Eyes and Pulley 14/- each.	Extra for Hopper Cheeks to Casements hung at bottom 6/- pair.
	Panes about 2 feet area	9d. per foot.			
	Panes about 1½ feet area	10d. per foot.			

Special quotations will always be given upon receipt of specifications.

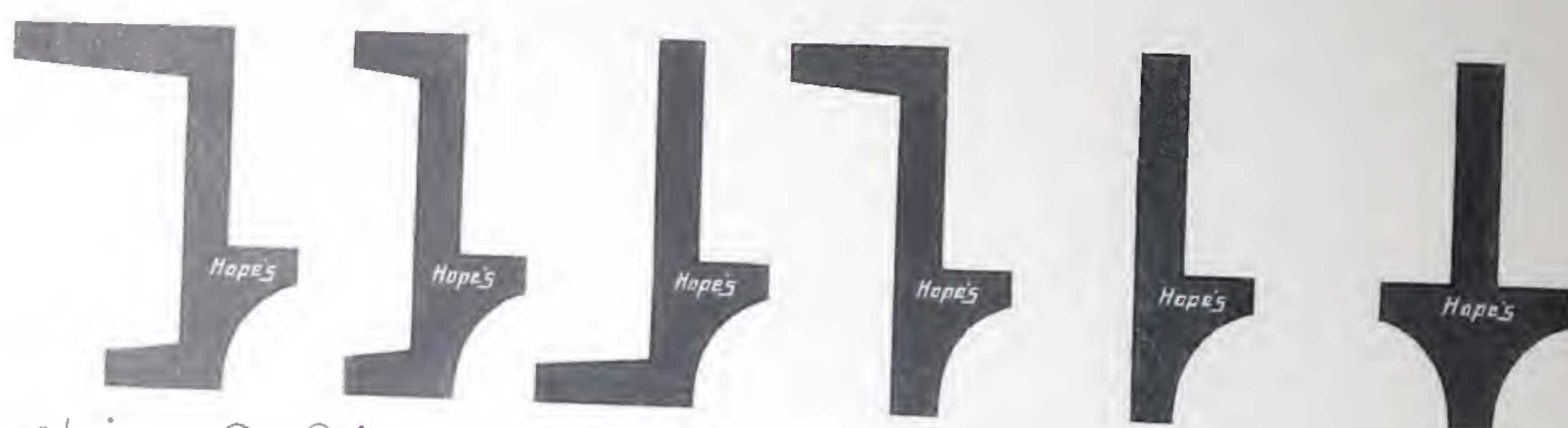
NOTE.—For details of other 1⁵/₈ inch Sections, with flanges suitable for glazing INSIDE, see page 54.

HENRY HOPE & SONS LTD

Details of Sash Sections kept in stock.



2 in. Sections.



1 5/8 in. Sections.



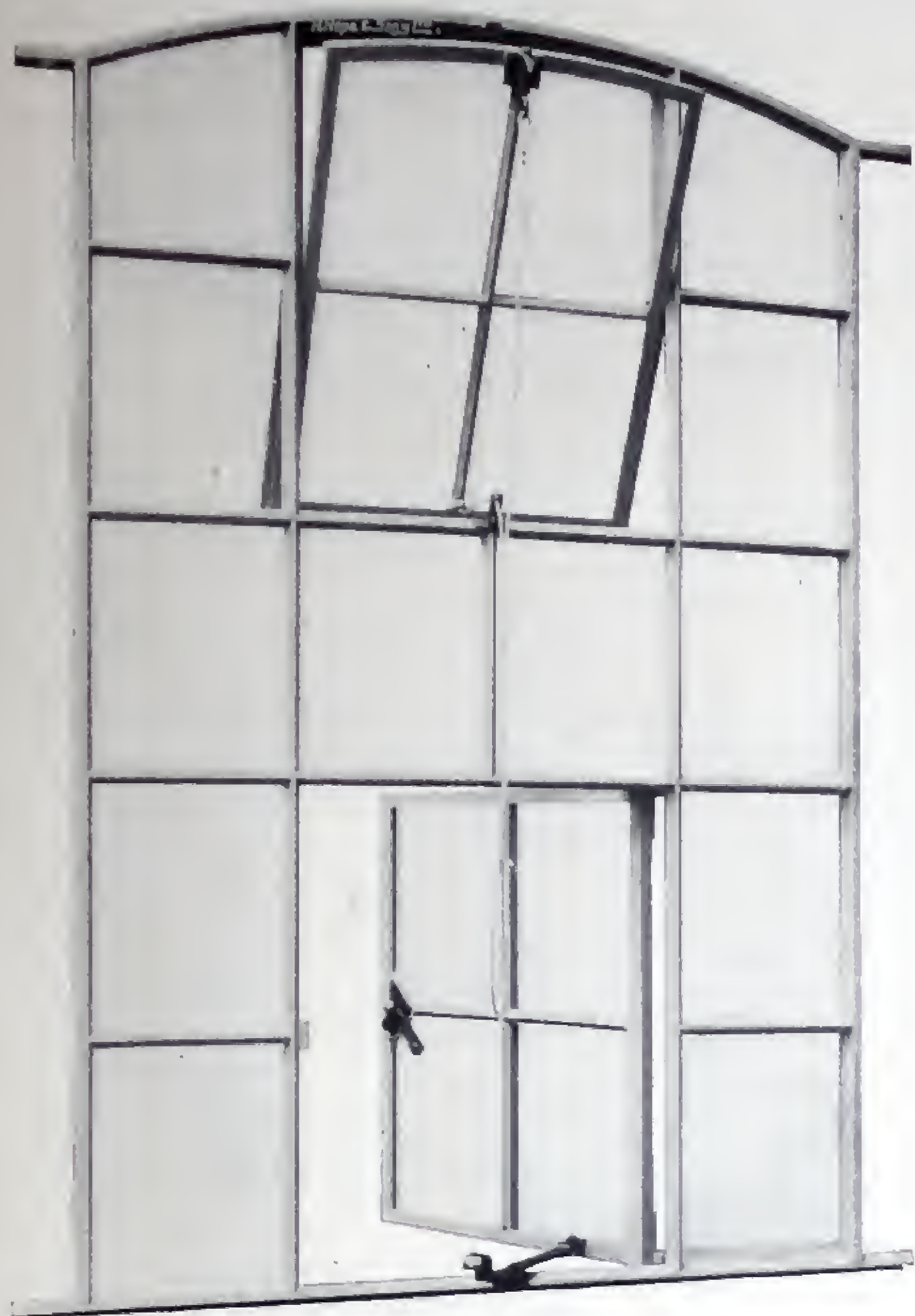
1 1/2 in. Sections.



1 1/4 in. Sections.

We keep a stock of between 200 and 300 tons of the above Sections, and we are always able to give delivery of windows to our standard patterns within a very short time of receiving an order.

SASHES with Side-hung Casements & Louvre Casements



Photograph of Sash, shewing Casement for exit in case of fire in addition to the ordinary ventilating casement, as required by the regulations of the London County Council. The form of this Casement may be varied, if required, either to hang on vertical pivots in the manner of our "Cleaning Casement," or to open inwards.

PRICES.

Side-hung Casements opening outwards, 20/- each.

Ditto, opening inwards, 25/- each.

Casements hung on vertical pivots, 35/- each.



Photograph of Steel Louvre Window, as supplied to breweries, power stations, factories, &c., &c., in tropical countries.

Designs and estimates, including schemes for opening gearing, will be supplied upon application.

HENRY HOPE & SONS LTD

OPENING GEAR

HENRY HOPE & SONS LTD



PRICES.

LINK GEAR, as A & B.
To open one light.

Steel rods and Gun-metal
parts, 18/- each.

All Gun-metal, 27/- each.

TWINSCREW GEAR, as
C. All Gun-metal.

Up to 24in. wide, 20/- each.

Extra, per inch, 1/-

HOPE'S GEAR, as D.

All Gun-metal, 6/- each.

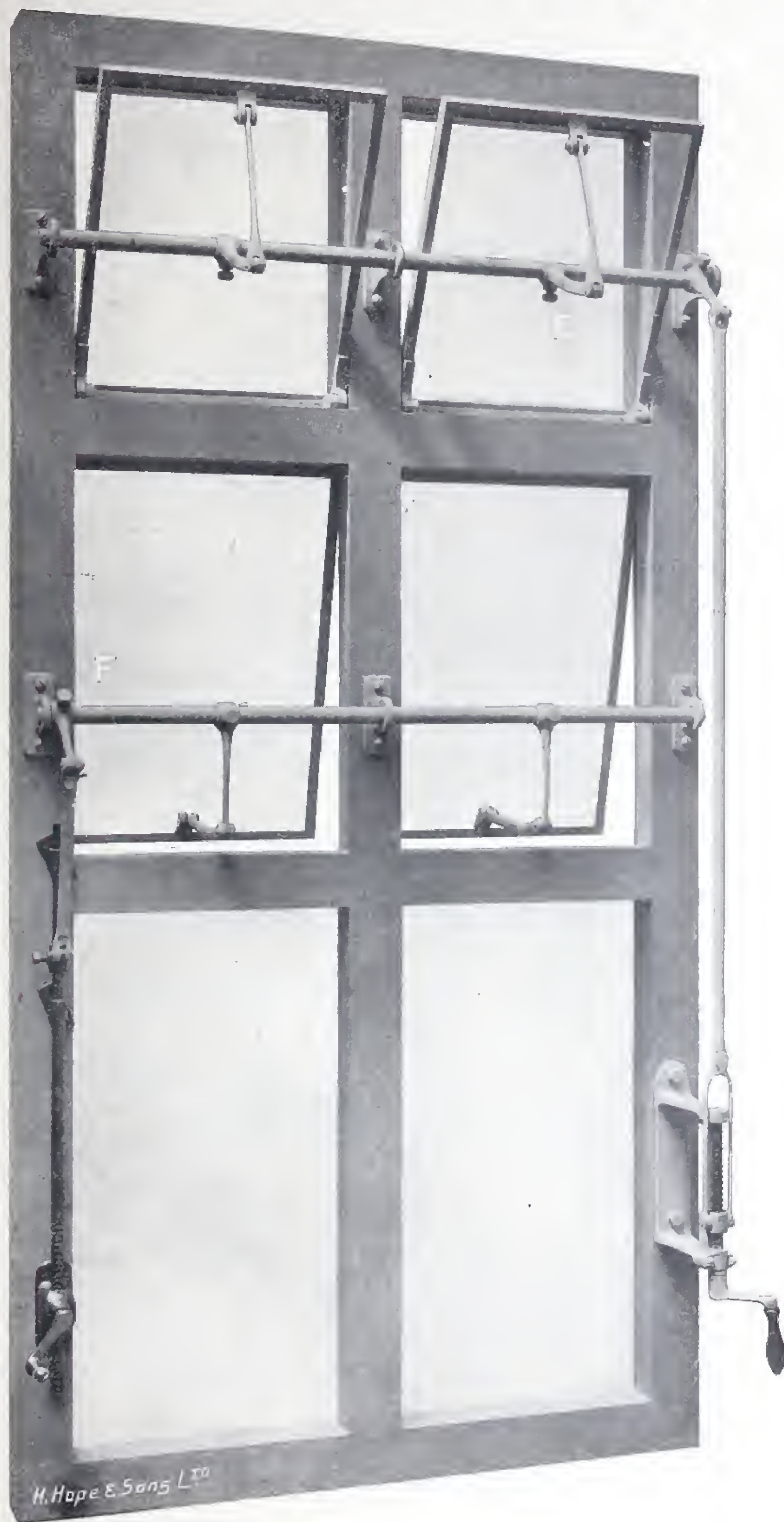
NOTE.—A and B are not
recommended for lights over
1ft. 6in. wide, except for
inside fanlights or sheltered
positions.

The above photograph illustrates three kinds of simple gear for light work. A & B are the well-known link motion and can be made to operate two lights side by side if required.

C is only recommended for single lights. It is very useful where a graduated and positive opening is desired, with a very small projection inside. It can be made to operate fanlights hung at top or swinging, in addition to hung at bottom as shewn above. D is a very useful opener for fanlights hung at top or swinging where the small projection of the jointed arm is not objectionable. It projects $3\frac{1}{2}$ inches from the face of the wood frame when closed.

OPENING GEAR

HENRY HOPE & SONS LTD



PRICES.

SHAFT & LEVER GEAR,
as E, all iron.

To open 1 light, 20/- each.

„ 2 lights, 26/- „

„ 3 „ 32/- „

„ 4 „ 38/- „

SHAFT & LEVER GEAR,
as F, iron with Gun-metal
working parts.

To open 1 light, 25/- each.

„ 2 lights, 31/- „

„ 3 „ 37/- „

„ 4 „ 43/- „

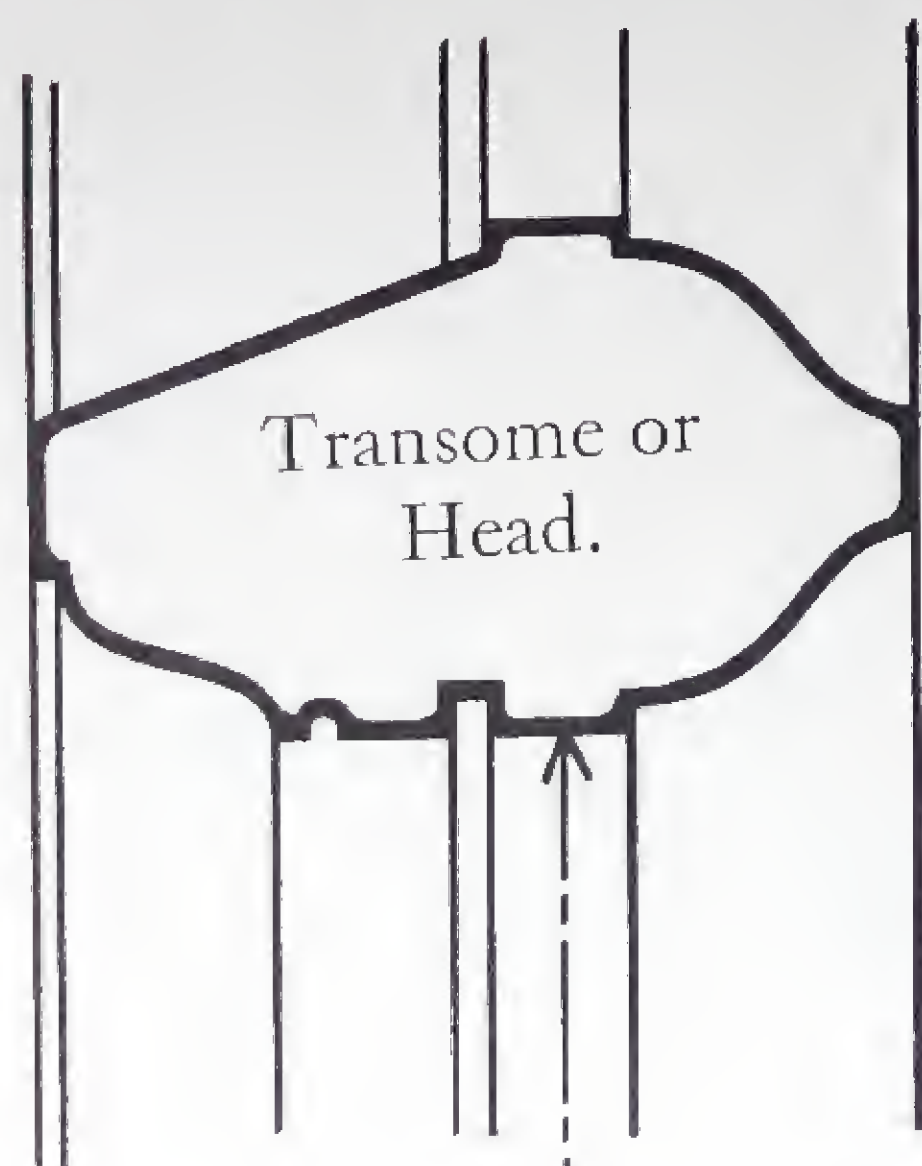
The above photograph illustrates our Shaft and Lever Gear for opening and closing ranges of lights.

E is fitted with our open screw bracket, which is of great strength and adapted for heavy work in factories, public baths, power stations, etc.

F is fitted with our gun-metal screw box and is used for light work where neatness is essential.

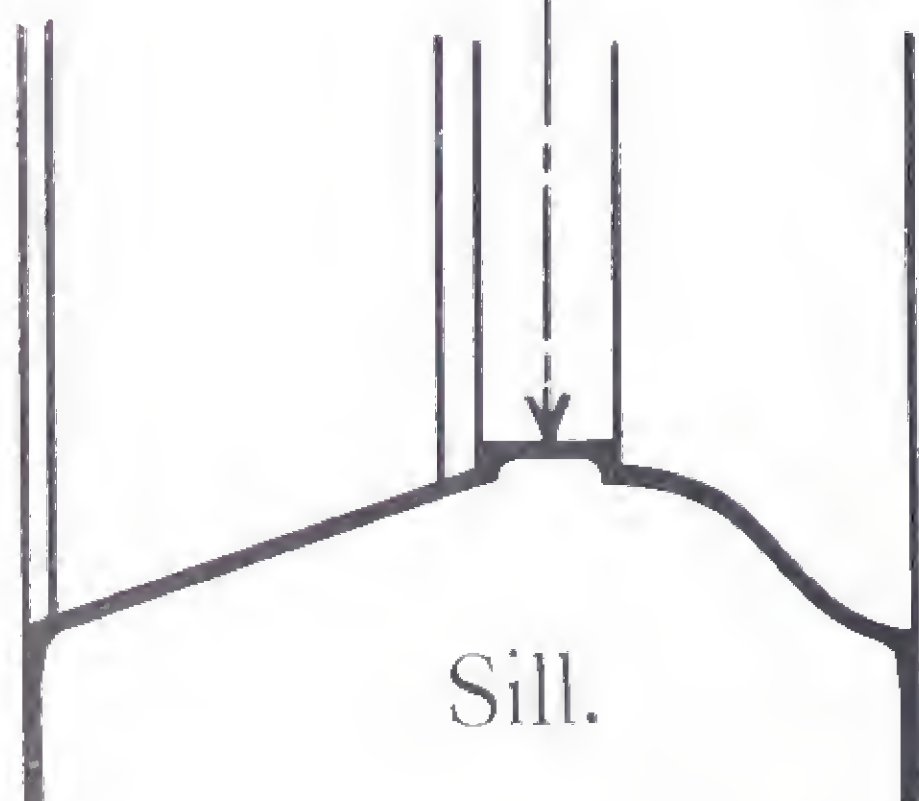
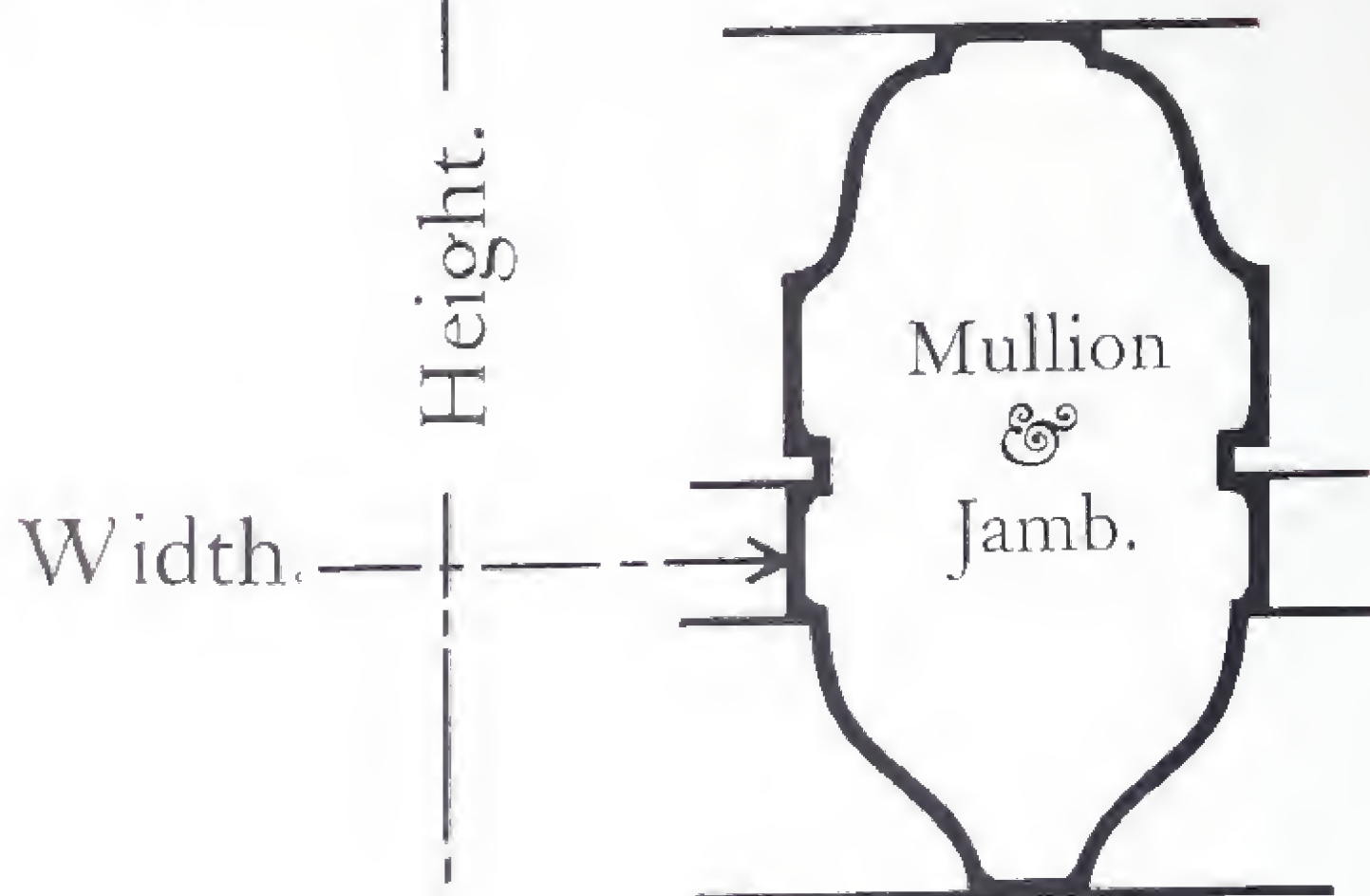
Estimates and detail drawings for gearing for all classes of work will be forwarded upon receipt of particulars, or, where necessary, a competent member of our staff will be sent to advise upon the gear required.

THE FOLLOWING PARTICULARS SHOULD ACCOMPANY AN ORDER



1. Exact height and width as shewn on these details.
2. Full-size sections of heads, jambs and sills.
3. Which hand to be hung, looking from **INSIDE**.
4. What glass to be used.
5. Sections and quality required.

Outside.



Detail quarter full size shewing how sizes should be taken in GROOVED work.



Internal view of a right-hand Casement, *i.e.*, with the hinges on the right-hand side **LOOKING FROM THE INSIDE**.

HENRY HOPE & SONS LIMITED
55, Lionel Street, Birmingham.

ILLUSTRATIONS OF BUILDINGS FITTED WITH HOPE'S CASEMENTS

We are illustrating in the following pages a few photographs of buildings which have been fitted with Hope's Casements.

Even the most conservative people are now realizing the many advantages afforded by Hope's Metal Casements over the ordinary form of wooden sash, and we are publishing these photographs to shew the great variety of buildings to which they have recently been applied.

In all cases they may be compared to their advantage with any form of wooden window.

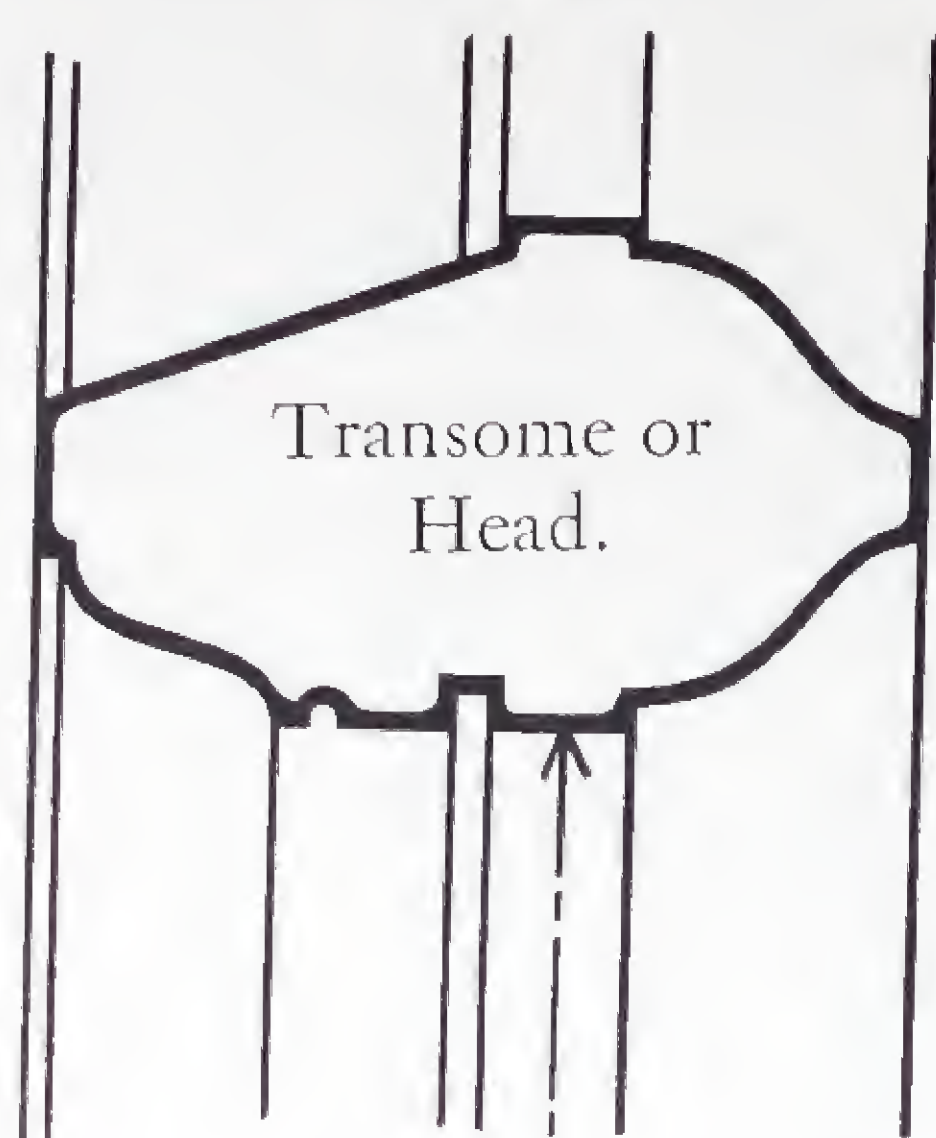
For large and important buildings our range of Sections can be adapted to suit Architects' own conceptions in design, and to fulfil all modern requirements for ventilation and safety ; while for domestic work they are adaptable to any size of house, and afford a wide selection in price.

The use of Metal Casements obviates the anomaly of placing inflammable windows in a fire-proof building.



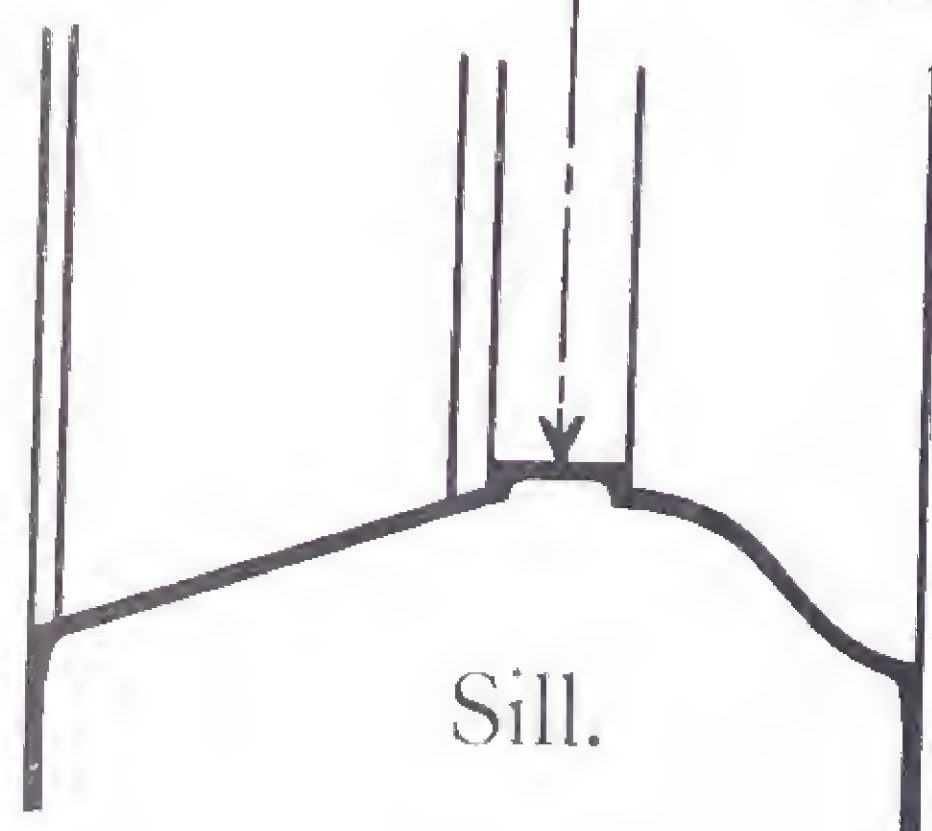
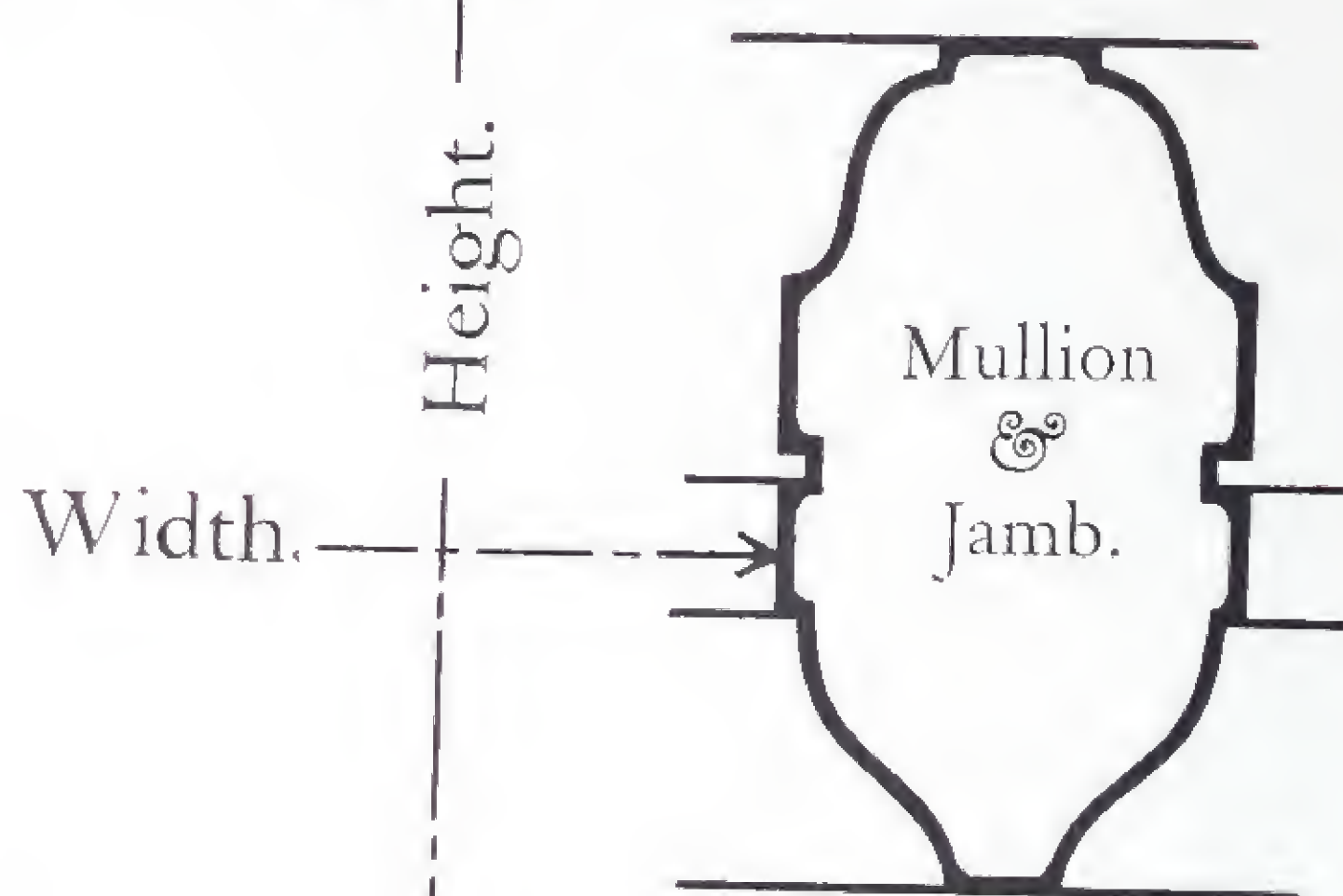
THE NATIONAL BANK OF JAPAN, TOKIO.

THE FOLLOWING PARTICULARS SHOULD ACCOMPANY AN ORDER



1. Exact height and width as shewn on these details.
2. Full-size sections of heads, jambs and sills.
3. Which hand to be hung, looking from **INSIDE**.
4. What glass to be used.
5. Sections and quality required.

Outside.



Detail quarter full size shewing how sizes should be taken in GROOVED work.

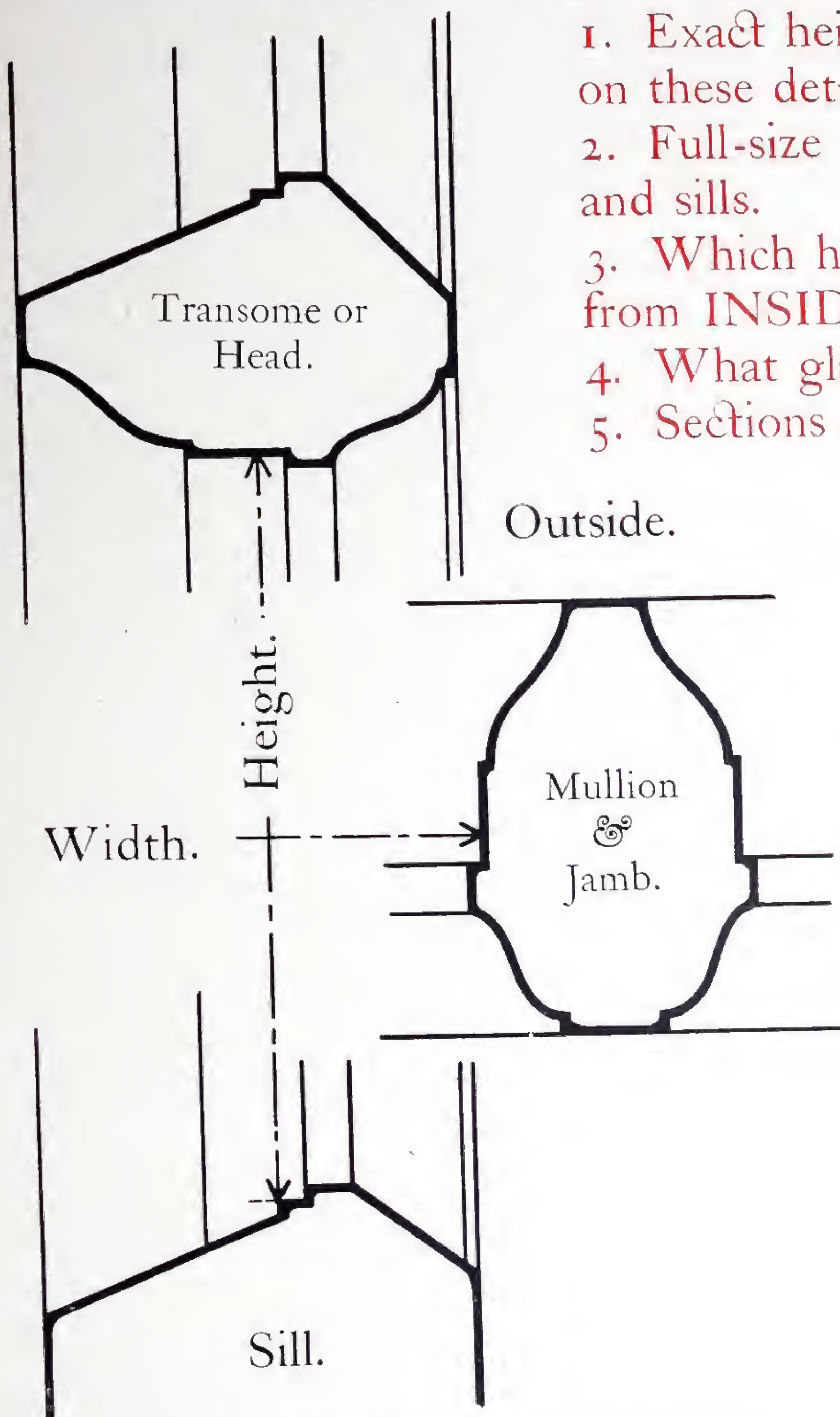


Internal view of a right-hand Casement, *i.e.*, with the hinges on the right-hand side LOOKING FROM THE INSIDE.

HENRY HOPE & SONS LIMITED
55, Lionel Street, Birmingham.

THE FOLLOWING PARTICULARS SHOULD ACCOMPANY AN ORDER

1. Exact height and width as shewn on these details.
2. Full-size sections of heads, jambs and sills.
3. Which hand to be hung, looking from **INSIDE**.
4. What glass to be used.
5. Sections and quality required.



Detail quarter full size shewing how sizes should be taken in REBATED work.



Internal view of a left-hand Casement. N.B.—The “Hand” of a Casement is always that side on which the hinges are, **LOOKING FROM THE INSIDE**, whether the Casement opens in or out.

HENRY HOPE & SONS LIMITED
55, Lionel Street, Birmingham.

IMPORTANT CONTRACTS IN HAND & RECENTLY EXECUTED

CARDIFF TOWN HALL & LAW COURTS *Lanchester, Stewart & Richards, Architects.*
HULL SCHOOL OF ART *Lanchester, Stewart & Richards, Architects.*
YOKOHAMA SPECIE BANK, YOKOHAMA
THE BIRMINGHAM UNIVERSITY *Aston Webb & E. Ingress Bell, Architects.*
WALSALL TOWN HALL *J. S. Gibson, Architect.*
CREWE TOWN HALL *H. T. Hare, Architect.*
HULL TOWN HALL & LAW COURTS *S. B. Russell & T. E. Cooper, Architects.*
POPLAR TECHNICAL INSTITUTE, for the London County Council.
"THE SCOTSMAN" OFFICES, EDINBURGH *Dunn & Findlay, Architects.*
THE MANCHESTER SHIP CANAL TRANSIT SHEDS
EASTERN DISTRICT HOSPITAL, GLASGOW *G. Hessel Tiltman, Architect.*
WESTERN DISTRICT HOSPITAL, GLASGOW *Alex. Cullen, Architect.*
HOLLYMOOR ASYLUM, BIRMINGHAM *Martin & Martin, Architects.*
LONDON HOSPITAL, WHITECHAPEL, *Rowland Plumbe & Harvey, Architects.*
CONVALESCENT HOME, LLANDUDNO *P Anson & Sons, Architects.*
MESSRS. HARLAND & WOOLF'S NEW POWER STATION, BELFAST.
STALYBRIDGE GENERATING STATION *H. Matear & Woodhouse, Architects.*
FLOUR MILLS, VICTORIA DOCK, LONDON *Gelder & Kitchen, Architects.*
EAGLE OIL MILLS, HULL *Gelder & Kitchen, Architects.*
GUINNESS, SONS & CO. LTD., DUBLIN, NEW STOREHOUSE
YORK STREET SPINNING CO. LTD., BELFAST *A. B. Wilson, Architect.*
BOLTON CO-OPERATIVE SOCIETY LTD. }
MATHER LANE SPINNING CO. LTD. } *Bradshaw & Gass, Architects.*
TABLE BAY HARBOUR BOARD, SOUTH AFRICA
KYNOCH LTD. OFFICES, BIRMINGHAM *Cossins, Peacock & Bewlay, Architects.*
SWANSEA HARBOUR BOARD OFFICES *Edwin Seward, Architect.*
WAREHOUSE, ARGYLE STREET, GLASGOW *P. MacGregor Chalmers, Architect.*
MESSRS. J. S. FRY & SONS' NEW FACTORY, BRISTOL
WESLEYAN CENTRAL HALL, BIRMINGHAM *E. & J. A. Harper, Architects.*
MISSION HALL, NEWCASTLE-ON-TYNE *Crouch & Butler, Architects.*
THE METROPOLITAN AMALGAMATED RAILWAY CARRIAGE &
WAGON CO. LTD. NEW FACTORIES, near Birmingham.
THE BRITISH THOMSON-HOUSTON CO. LTD., RUGBY
"BRACKENBROUGH," CARLISLE }
"HALLYBURTON," PERTH } *R. S. Lorimer, Architect.*
"HIGH BARN," GODALMING }
MAESYCRUGIAU MANOR *Arnold Mitchell, Architect.*
NEW BERWICK HOUSE, HAMPSHIRE *Detmar Blow, Architect.*
HOUSES AT SEA POINT, CAPE TOWN
STEEL WINDOWS FOR NAVAL AND MILITARY BUILDINGS
THROUGHOUT THE BRITISH EMPIRE FOR H.M. GOVERNMENT.

ILLUSTRATIONS OF BUILDINGS FITTED WITH HOPE'S CASEMENTS

We are illustrating in the following pages a few photographs of buildings which have been fitted with Hope's Casements.

Even the most conservative people are now realizing the many advantages afforded by Hope's Metal Casements over the ordinary form of wooden sash, and we are publishing these photographs to shew the great variety of buildings to which they have recently been applied.

In all cases they may be compared to their advantage with any form of wooden window.

For large and important buildings our range of Sections can be adapted to suit Architects' own conceptions in design, and to fulfil all modern requirements for ventilation and safety ; while for domestic work they are adaptable to any size of house, and afford a wide selection in price.

The use of Metal Casements obviates the anomaly of placing inflammable windows in a fire-proof building.

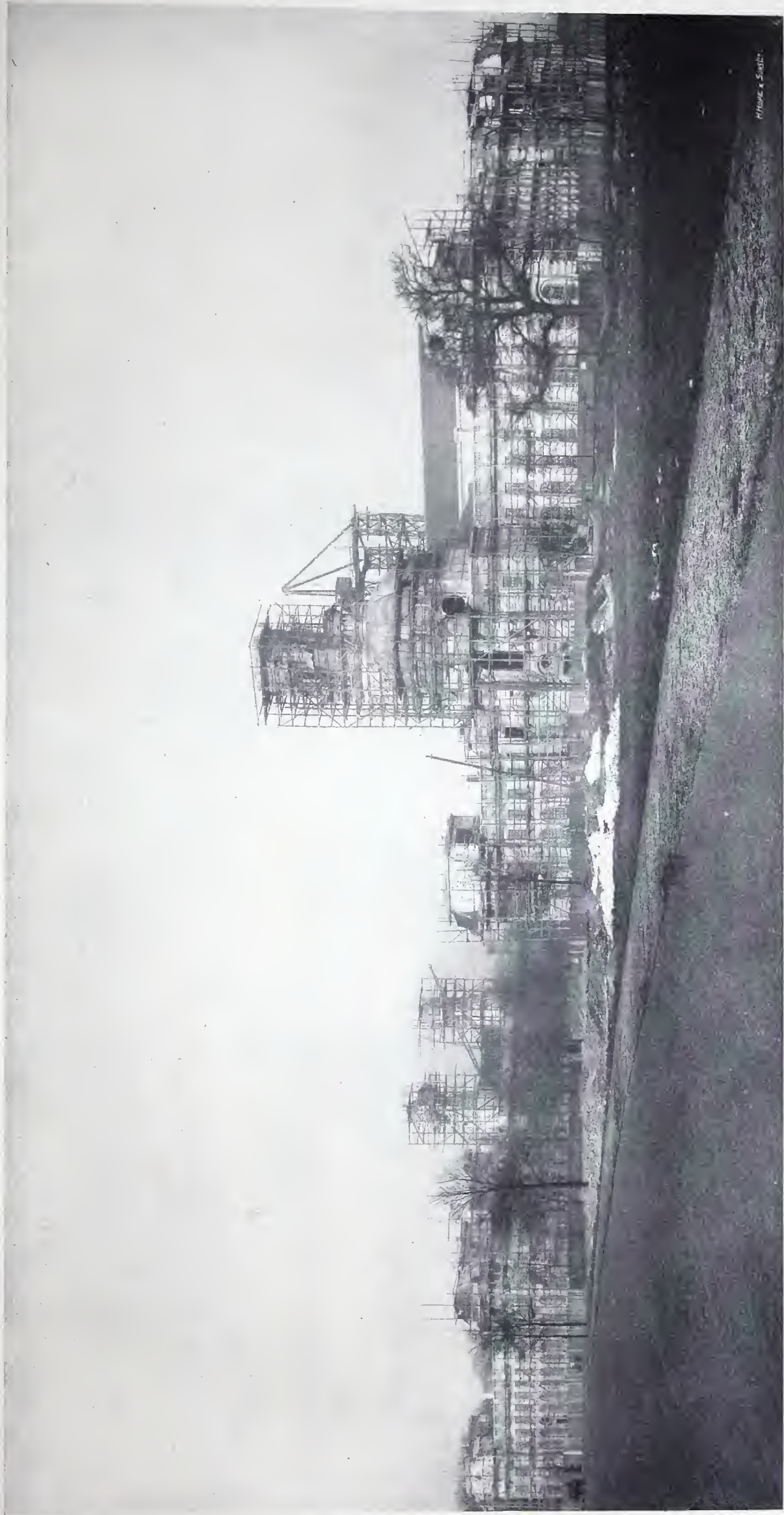


THE NATIONAL BANK OF JAPAN, TOKIO.



H. HOPE & SONS LTD.

WINDSOR CASTLE.—During the recent alterations carried out by the command of His Majesty the King, the Gun-metal casements and opening gear were supplied by HENRY HOPE & SONS LIMITED.



NEW LAW COURTS & TOWN HALL, CARDIFF,

LANCHESTER, STEWART & RICKARDS, Architects,

W. H. & S. Smith.



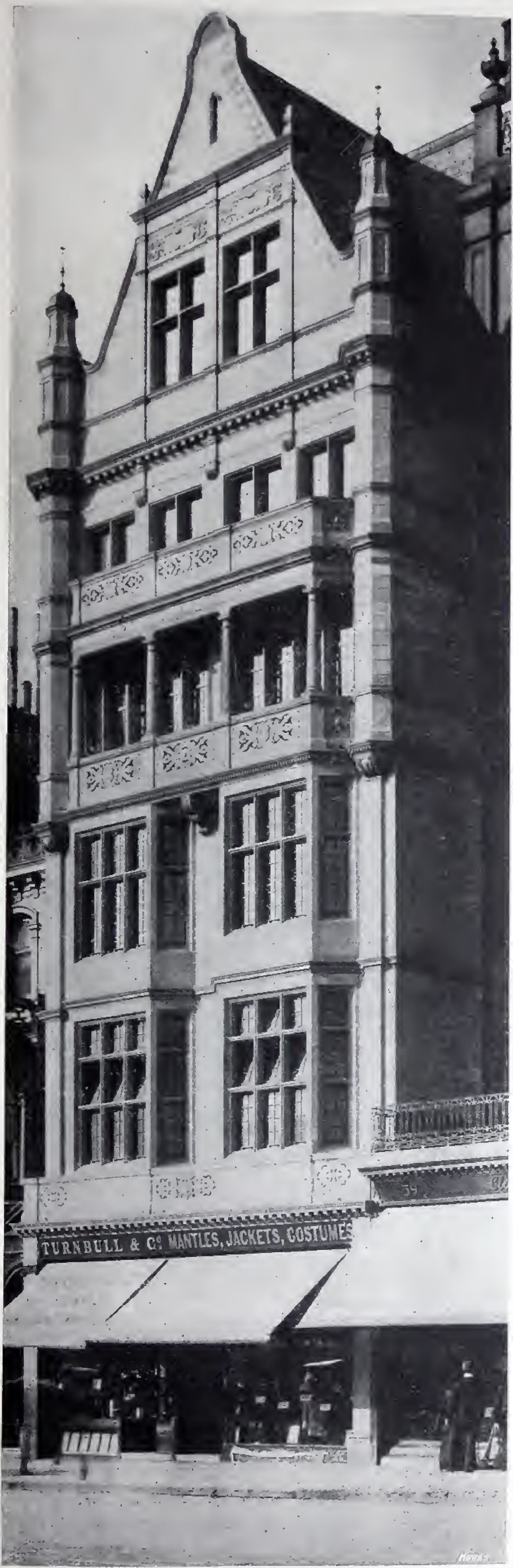
ONE OF THE PAVILIONS, VICTORIA HOSPITAL, EDINBURGH.

SYDNEY MITCHELL & WILSON, Architects.



NEW OFFICES FOR KYNOCH LTD.

COSSINS, PEACOCK & BEWLAY, Architects.



60, PRINCES STREET, EDINBURGH.
HIPPOLYTE J. BLANC, Architect.



"OAKRIDGE," DORKING.
J. THACKERAY TURNER, Architect.



124, COLMORE ROW, BIRMINGHAM.
W. R. LETHABY, Architect.



ARMATHWAITE CASTLE, CARLISLE.

ARMSTRONG & WRIGHT, Architects.



STELLING HALL, NEWCASTLE-ON-TYNE.

ARMSTRONG & WRIGHT, Architects.



"CARLAKEMP," NORTH BERWICK.

KINROSS & TARBOLTON, Architects.



"THE SUN-DIAL," Lyme Regis.
ARNOLD MITCHELL, Architect.



HOUSE AT NORTHFIELD.
W. A. HARVEY, Architect.



"PARKWOOD," HENLEY-ON-THAMES.

W. H. FLOCKHART, Architect.



"WINTERBOURNE," EDGBASTON.

JOHN L. BALL, Architect.



"HIGH BARN," GODALMING.

R. S. LORIMER, Architect.



"ST. MARY'S," HAPPISBURGH, NORFOLK.

DETMAR BLOW, Architect.



HOUSE AT WINDERMERE.

BAILIE SCOTT, Architect.



"GARTH HOUSE," EDGBASTON.

W. H. BIDLAKE, Architect.



"WESTBROOK," GODALMING.

J. THACKERAY TURNER, Architect.



HOUSE AT GODALMING.
J. THACKERAY TURNER, Architect.



HOUSE AT BUXTON.
BARRY PARKER & RAYMOND UNWIN, Architects.



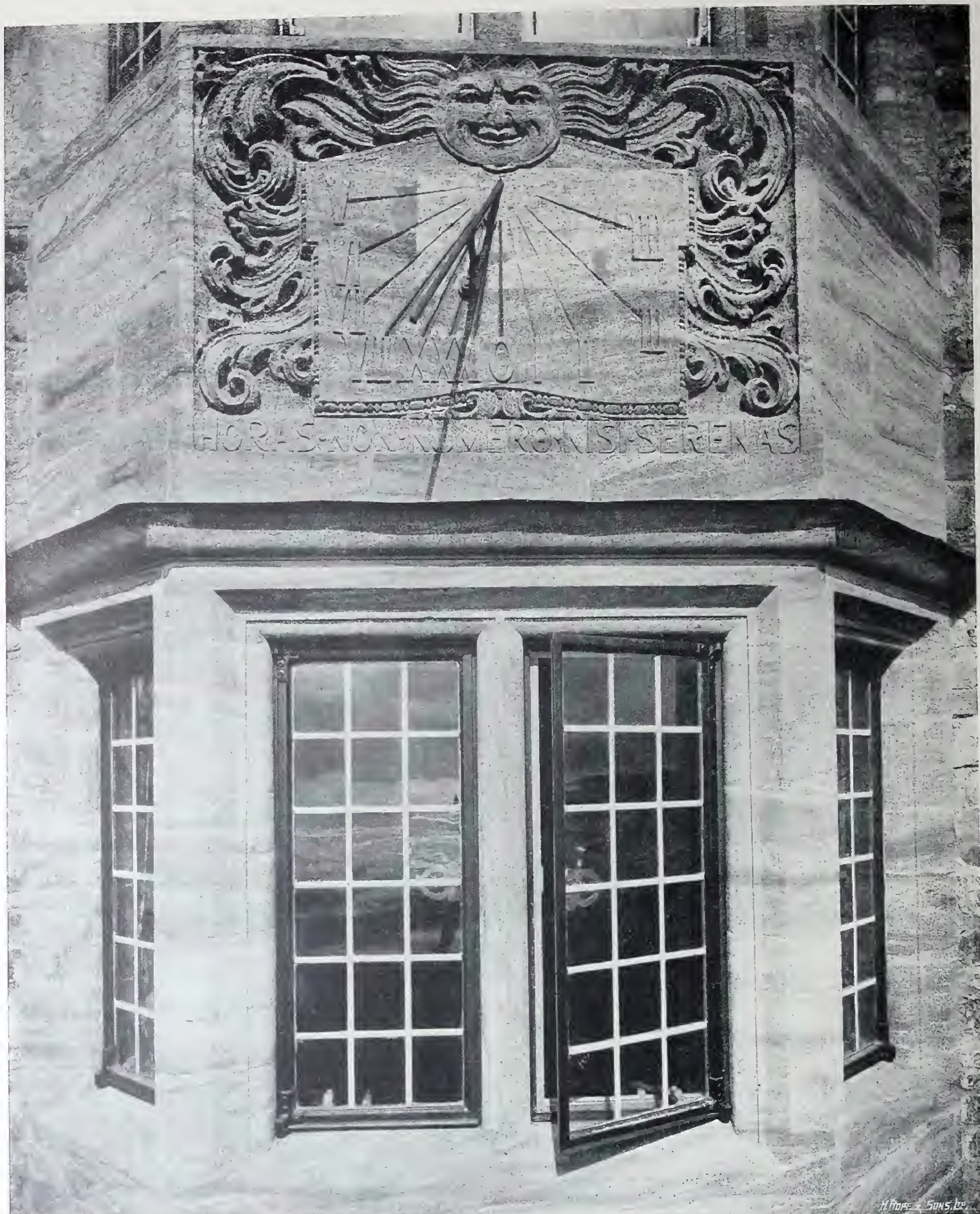
HOUSE AT KENILWORTH.

W. H. BUCKLAND & HEYWOOD FARMER, Architects.



DRAWING ROOM, SOUTH WRAXALL MANOR HOUSE.

The casements and leaded lights throughout this famous old building were entirely re-made upon the old models by HENRY HOPE & SONS LTD.



"THE SUN-DIAL," LYME REGIS, DORSET.

ARNOLD MITCHELL, Architect.

We have pleasure in publishing the following letter, as a striking testimonial of the weather-tight qualities of our Casements under most trying conditions. The closeness of these windows to the sea-shore will be appreciated from the photograph which shews the reflection of the waves in the glass.

"39, GREAT MARLBOROUGH ST., LONDON, W., March 22nd, 1904.

"Dear Sirs,—You are welcome to take a photograph of "The Sun-dial," at Lyme Regis. I have spent much time there this winter, and am pleased to say that both your Casements and your Leaded Glass have been in every way satisfactory. The house is within only a few feet of the water, and after a heavy gale the windows are all covered with salt from the sea-water blown against them. They have, however, stood perfectly, and have given me no trouble at all.

"I have used many various casements and much leaded glass, but have never had work so good as in this little house. I feel sure you will be glad to know how pleased I am with what you have done.

"Faithfully yours, ARNOLD MITCHELL.

"Messrs. Henry Hope & Sons Limited, Birmingham."

HENRY HOPE & SONS LTD STAINED GLASS AND LEADED LIGHTS.



PRICES.

For plain leaded lights, with strong leads (any width up to $\frac{3}{4}$ inch), thoroughly well soldered and cemented on both sides and including copper ties for saddle bars. Plain squares, 21 oz. glass, $1\frac{1}{2}$ per foot super. Ditto, 26 oz. glass, $1\frac{1}{4}$ per foot.

Ditto, unflattened crown glass, 2/- per foot.

Geometric designs such as the old lozenge pattern, from $2\frac{1}{6}$ per foot.

Prices include packing and delivery F.O.R. Birmingham.

Prices for more elaborate work upon application.

In calling attention to this department, we wish to emphasize the advantage of producing leaded lights in the same factory and under the same supervision as the metal casements which they are designed to fill. It ensures absolute accuracy in the relation of saddle bars and handle plates to leads, and avoids the usual difficulties resulting from the employment of two or more firms.

Special estimates, including delivery and fixing, will be forwarded upon receipt of particulars as to sizes and quantity and style of work required.

Pamphlet of designs and prices upon application.

HENRY HOPE & SONS LTD BRONZE DOOR FURNITURE

The scarcity of really good door furniture has encouraged us to develop and place upon the market an entirely new range of fittings. The utility of each article has been made an absolute condition, and the ornamentation is in all cases suitable to the material and its use.

The engineering resources at our command have enabled us to give a mechanical accuracy hitherto not employed in work of this class, with the result that we are able to offer a combination of appropriate design with the lasting qualities of mechanical perfection.



No. 625



No. 624



No. 626

Knobs & Spindles

(for inside doors).

Finger-plates.

Bell Pushes (electric).

Switches („).

Knockers.

Centre Knobs

(for outer doors).

Grip Handles

(for swing doors).

Letter Boxes.

Bolts of all kinds.

Cloak Hooks.

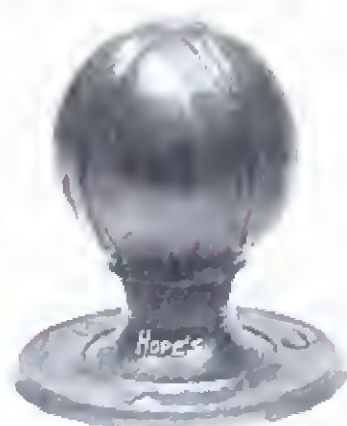
Numerals.

Cabinet Furniture.

Latches.

Handles & Stays

(for wood casements).



No. 617



No. 618



No. 619



No. 620

Special Catalogue, with prices, of door furniture and fittings for wood casements, &c., upon application. The above illustrations are selected from this Catalogue to give an idea of the general character of our work in this department.

HENRY HOPE & SONS LTD. WROT. CAST-LEAD RAINWATER HEADS GUTTERS, CISTERNS, GARDEN VASES, &c.



LEAD is a metal peculiarly suited to the objects above mentioned: it has great advantages over other metals, and is ultimately more economical than iron, its chief competitor.

Articles in lead may be built and soldered together from cast sheets, or cast from the same wooden pattern which serves for iron. In either case there is a great improvement on cast-iron goods, and those who have compared the results obtained by the two methods will not hesitate in selecting the former. We think it sufficient that attention should be drawn to the charming and characteristic effects obtained in this manner, without insisting on its claim to be considered the legitimate and traditional treatment of the material. The designs illustrated are by Mr. William Haywood, and we have selected them from among some simple and inexpensive models which we have recently carried out. Special designs and estimates will be forwarded on request for more elaborate work.



No. 615.
Width over Ears,
14 ins.
£2 . 10 . 0



No. 598.
Width over Ears, 25 ins.
£3 . 8 . 0
Tinning, 5/- extra.



No. 616.
Width over Ears,
14 ins.
£2 . 17 . 0



Special Catalogue of Leadwork, containing a variety of designs and prices, upon application.

HENRY HOPE & SONS L^D

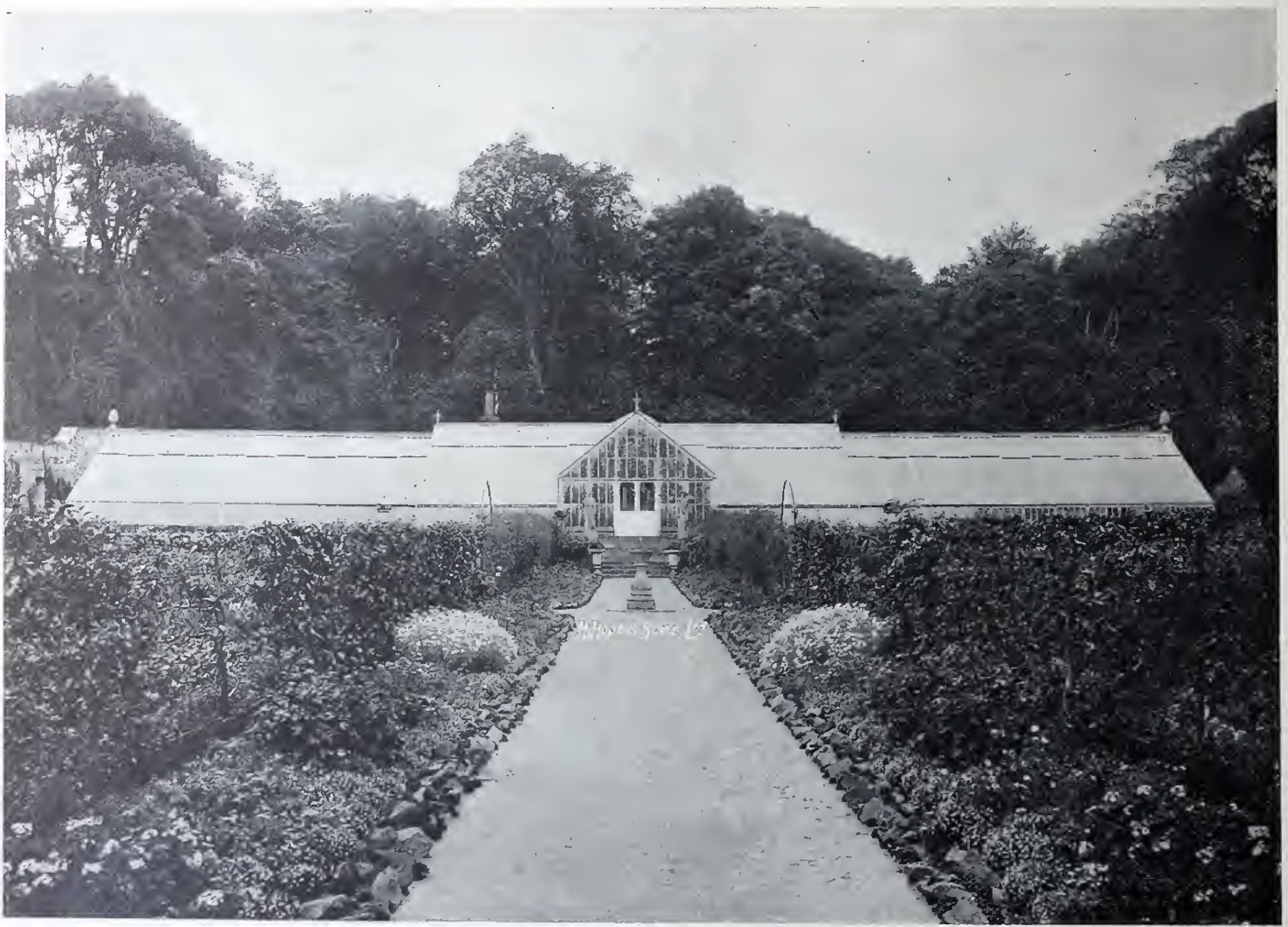
HORTICULTURAL BUILDINGS

We have pleasure in calling attention to this department which is the original business founded in 1818.

The large number of glass houses in every county in the United Kingdom are standing proofs of the general excellence which has always distinguished our work.

The knowledge and experience we have gained in a period of over eighty years is entirely at the disposal of our customers. We furnish designs and estimates without charge, and we are always prepared, at a few days' notice, to send one of our staff to make a survey and take particulars of work for which an estimate is required.

The workshops at Lionel Street are nearly all new, and comprise carpenters' shops and fitting shops complete with the most modern machinery for working wood and metal; all constructional work is fitted, erected, and marked before being sent away, so that the building can be cleanly and rapidly erected after delivery.



Range of Plant and Fruit Houses at Glynliffon, Caernarvon.

Book of photographs of work executed upon application.

HENRY HOPE & SONS LTD PATENT GLAZING

Absolutely water-tight and imperishable. Successfully used for many years for Factories, Power Stations, Baths, Railway Stations, Goods Sheds, etc.

Many of the most important factories in the Kingdom, where delicate operations are carried on, requiring absolute protection from wet and dirt, are glazed on Hope's Patent System.

Our glazing has recently been selected for the Royal Mint and for the Carriage Yard at Buckingham Palace.



Section of Bar to carry 9½ feet lengths of glass without support.



AMBULANCE STATION, FULHAM. Glazed on Hope's Patent System. This roof was completely covered within six days of receiving order.

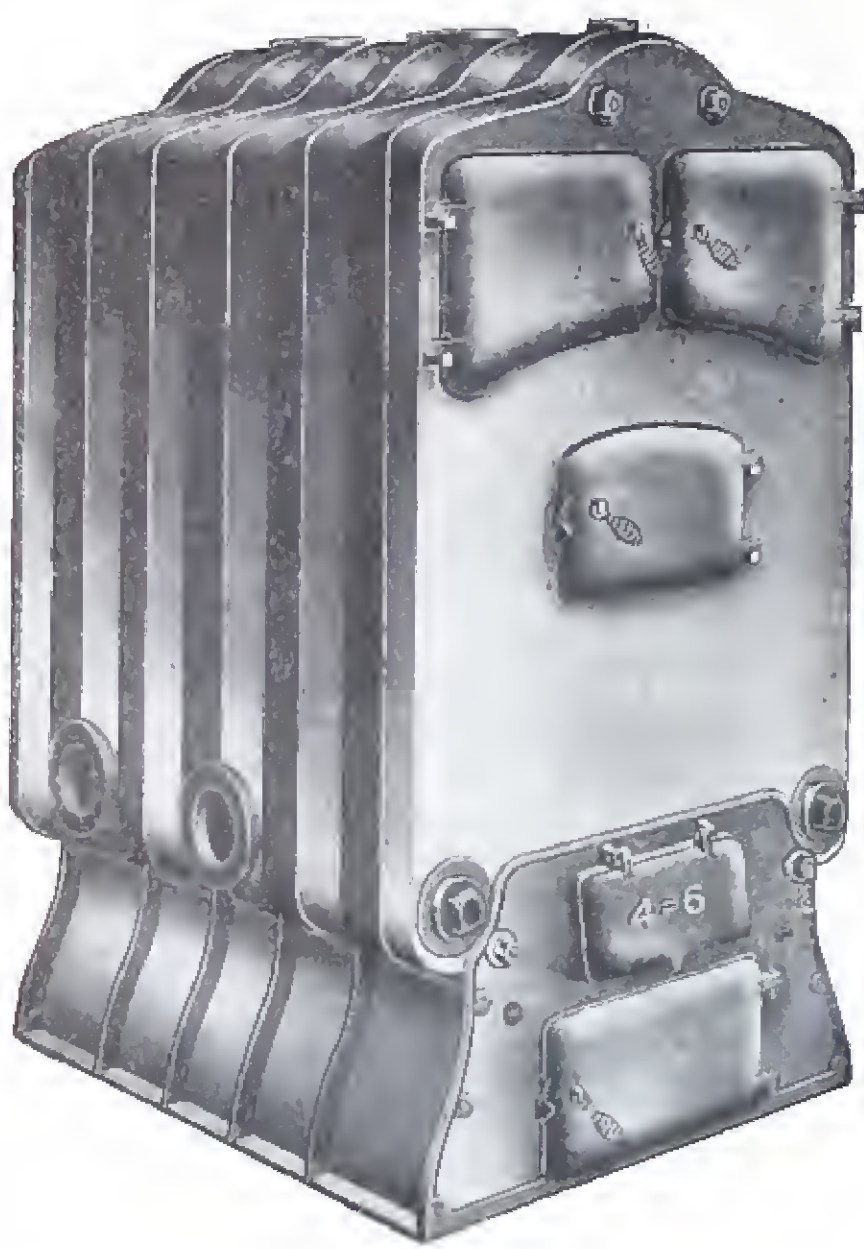
Special Catalogue of Hope's Patent Glazing with detail drawings shewing various forms of roofs will be sent upon application.

HENRY HOPE & SONS LTD HEATING & HOT-WATER SUPPLY

We design and supply heating apparatus for every kind of building.

For greenhouses, etc., we always supply low-pressure hot-water systems with large bore pipes of ample heating surface, so that the necessary temperature can be obtained without hard firing. Private residences should be heated on the same system (as a rule) but with radiators, all main and supply pipes being carried out of sight where possible. For public buildings and institutions, schools, etc., we are prepared to tender on either steam or hot-water systems, with either a "plenum" or extraction system of mechanical ventilation.

We have a special staff, and design every apparatus to meet the requirements of each particular building. No scheme is either too large or too small for our attention, and in all cases we guarantee the results.



HOT-WATER SUPPLY

We have a thorough knowledge of this branch of domestic engineering, and we supply schemes and estimates for hot and cold water services for private houses or public institutions, including the complete fitting of bathrooms, etc., upon modern lines.



NEW PUBLIC LIBRARY, HULL.
Apparatus by H. HOPE & SONS LTD.

Hot-water Warming
J. S. GIBSON, Architect.

HENRY HOPE & SONS L^D
55, Lionel Street, BIRMINGHAM

LIST OF CATALOGUES

Metal Casements, Sashes, etc.	1904
Hope's Patent Glass Roofing -	1904
Horticultural Buildings and	
Heating Apparatus - - -	1903
Bronze Door Furniture and	
Fittings for Wood Casements,	
Cabinet Work, etc. - - -	1904
Leaded Lights and Stained	
Glass - - - - -	1904
Cast and Wrought-lead Gutters,	
Heads, etc. - - - - -	1904

Arranged by Mr. William Haywood.
Printed by Silk & Terry, Birmingham.

[BLANK PAGE]



CCA

[BLANK PAGE]



CCA

[BLANK PAGE]



CCA

[BLANK PAGE]



CCA

